



## THE COMMERCIAL OFFER

### Accredited tests:

The Food Safety Laboratory offers tests of residues of plant protection products in food (fresh and processed), in agricultural products of plant origin, in eggs, in soil and in water by the methods shown in the table below, accredited by the Polish Center for Accreditation - accreditation number AB 757. These methods are regularly checked in proficiency tests organized by the European Union Reference Laboratories (EURL).

The Food Safety Laboratory does not collect samples for testing, the samples are provided by the customer.

| The Method                                                                                                                                                                                                                | Matrices                                           | Technics | The scope of analyze & LOQ*                                                                                                                                                                                                                                                                                                            | The net price** (PLN) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| <b>PN-EN 15662:2018</b><br>Multimethod for the determination of pesticide residues using GC- and LC-based analysis following acetonitrile extraction/partitioning and clen-up by dispersive SPE – Modular QuEChERS-method | Food, Agriculture Products of Plant Origin<br>Eggs | GC-MS/MS | Substances & LOQ acc. Table 1a – 1e                                                                                                                                                                                                                                                                                                    | 450.00                |
|                                                                                                                                                                                                                           |                                                    | LC-MS/MS | Substances & LOQ acc. Table 2a – 2e                                                                                                                                                                                                                                                                                                    | 350.00                |
|                                                                                                                                                                                                                           |                                                    | LC-MS/MS | Acidic pesticides i GO wg Tabel 3a – 3c                                                                                                                                                                                                                                                                                                | 300.00                |
|                                                                                                                                                                                                                           |                                                    | LC-MS/MS | Submethod for Dithianon, Dodine, TFNA, TFNG (Flonicamid methabolites) & LOQ acc. Table 4a – 4b                                                                                                                                                                                                                                         | 200.00                |
|                                                                                                                                                                                                                           |                                                    | LC-MS/MS | Nicotine – GO - 0,01 mg/kg                                                                                                                                                                                                                                                                                                             | 200.00                |
|                                                                                                                                                                                                                           | Soil                                               | GC-MS/MS | Substances & LOQ acc. Table 5                                                                                                                                                                                                                                                                                                          | 400.00                |
|                                                                                                                                                                                                                           |                                                    | LC-MS/MS | Substances & LOQ acc. Table 6                                                                                                                                                                                                                                                                                                          | 300.00                |
| <b>PB-02 ed.2 z dn.15.02.2021</b>                                                                                                                                                                                         | Water                                              | LC-MS/MS | Substances & LOQ acc. Table 7                                                                                                                                                                                                                                                                                                          | 200.00                |
| <b>PB-03 ed.1 z dn.15.02.2021</b>                                                                                                                                                                                         |                                                    | GC-MS/MS | Substances & LOQ acc. Table 8                                                                                                                                                                                                                                                                                                          | 200.00                |
| <b>PN-EN 12396-2:2002</b><br>Determination of dithiocarbamate and thiuram disulfide residues                                                                                                                              | Food, Agriculture Products of Plant Origin         | GC-MS    | Dithiocarbamates (dithiocarbamates expressed as CS <sub>2</sub> , including maneb, mancozeb, metiram, propineb, thiram and ziram) – LOQ: 0.005mg/kg                                                                                                                                                                                    | 150.00                |
| <b>PB-04 ed.1 z dn.10.01.2022</b>                                                                                                                                                                                         | Food, Agriculture Products of Plant Origin         | GC-MS    | Ethylene oxide (sum of ethylene oxide and 2-chloro-ethanol expressed as ethylene oxide) – LOQ: 0.02 mg/kg (fruits&vegs) / 0.05 mg/kg (oily) / 0.1 mg/kg (specific)                                                                                                                                                                     | 300.00                |
| <b>EURL-SRM QuPpe - PO</b><br>Quick Method for the Analysis of Residues of numerous Highly Polar Pesticides in Food of Plant Origin involving Simultaneous Extraction with Methanol and LC-MS/MS Determination            | Food, Agriculture Products of Plant Origin         | LC-MS/MS | Glyphosate –LOQ: 0.01 mg/kg (fruits&vegs) / 0.05 mg/kg (other matrices)<br>Trimethyl-sulfonium cation – LOQ: 0.01 mg/kg (fruits&vegs) / 0.05 mg/kg (other matrices)<br>Glufosynate, its isomers and metabolites (MPP, NAG) – LOQ: 0.025 mg/kg (fruits&vegs, cereals, oily) / 0.05 mg/kg (other matrices)<br>Ethephon – LOQ: 0.01 mg/kg | 400.00                |
|                                                                                                                                                                                                                           |                                                    |          | Maleic hydrazide – LOQ: 0.05 mg/kg                                                                                                                                                                                                                                                                                                     | 300.00                |
|                                                                                                                                                                                                                           |                                                    |          | Chlorates/Perchlorates – LOQ: 0.01 mg/kg<br>Fosetyl-Al – LOQ: 0.01mg/kg<br>Phosphonic acid and its salts – LOQ: 0.1 mg/kg<br>Bromide ion – LOQ 0.2 mg/kg (fruits&vegs) / 0.5 mg/kg (cereals, oily)                                                                                                                                     | 350.00                |
|                                                                                                                                                                                                                           |                                                    |          | Chlormequat –LOQ: 0.005 mg/kg<br>Mepiquat –LOQ: 0.005 mg/kg<br>Cyromazine –LOQ: 0.01 mg/kg<br>Matrine – LOQ – 0.01 mg/kg<br>Oksymatrine – GO – 0.01 mg/kg<br>Melamine – GO – 0.01 mg/kg                                                                                                                                                | 350.00                |
|                                                                                                                                                                                                                           |                                                    |          |                                                                                                                                                                                                                                                                                                                                        |                       |
|                                                                                                                                                                                                                           |                                                    |          |                                                                                                                                                                                                                                                                                                                                        |                       |
|                                                                                                                                                                                                                           |                                                    |          |                                                                                                                                                                                                                                                                                                                                        |                       |

\* - LOQ – Limit of quantitation.

\*\* - the current VAT tax (23%) should be added to the net price.



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### Non-accredited tests:

The Food Safety Laboratory also offers tests for residues of plant protection products presented in the table below. The mentioned compounds are determined according to the "EURL-SRM QuPpe-PO" or "PN-EN 15662: 2018" methods, but at the moment they are not accredited by the Polish Center for Accreditation.

| The Method                                                                                                                                                                                                     | Matrices                                   | Techniques | The scope of analyze & LOQ*                                             | The net price** (PLN) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|------------|-------------------------------------------------------------------------|-----------------------|
| <b>EURL-SRM QuPpe - PO</b><br>Quick Method for the Analysis of Residues of numerous Highly Polar Pesticides in Food of Plant Origin involving Simultaneous Extraction with Methanol and LC-MS/MS Determination | Food, Agriculture Products of Plant Origin | LC-MS/MS   | AMPA <sup>1</sup> – LOQ: 0.05 mg/kg                                     | 200.00                |
|                                                                                                                                                                                                                |                                            |            | ETU <sup>4</sup> –LOQ: 0.01 mg/kg<br>PTU <sup>5</sup> –LOQ: 0.005 mg/kg | 300.00                |
| <b>PN-EN 15662:2018</b>                                                                                                                                                                                        | Food, Agriculture Products of Plant Origin | LC-MS/MS   | DDAC <sup>2</sup> , BAC <sup>3</sup> – GO – 0.01 mg/kg                  | 300.00                |

\* - LOQ – Limit of quantitation.

\*\* - the current VAT tax (23%) should be added to the net price.

<sup>1</sup> - AMPA – Aminomethylphosphonic acid – Glyphosate metabolite

<sup>2</sup> - DDAC – Didecyltrimethylammonium chloride (C8, C10)

<sup>3</sup> - BAC – Benzalkonium chloride (C8, C10, C12, C14, C16)

<sup>4</sup> - ETU (ethylenethiourea) and <sup>5</sup> - PTU (propylenethiourea). These are metabolites formed in plants after the use of some dithiocarbamate fungicides. Their presence may verify the use of propineb (PTU) or, for example, mancozeb or metiram (ETU)

### Important issue:

The deadline for the execution of orders and the scope of the tests to be agreed with the client.

When selecting a larger number of analytical methods / techniques or delivering a larger number of test samples, the total price for the order may be negotiable.

Pages 3 and 4 show the suggested 'Packages' and their price.



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### Suggested Packages

| The Package                                                                                  | The Method         | Techniques | The scope of analyze & LOQ*                                                                                                                                            | The net price <sup>2,3</sup> (PLN) |
|----------------------------------------------------------------------------------------------|--------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Package „Basic”</b><br>(first choice for checking our food)                               | PN-EN 15662:2018   | GC-MS/MS   | Substances & LOQ acc.Table 1a – 1e                                                                                                                                     | 600.00                             |
|                                                                                              |                    | LC-MS/MS   | Substances & LOQ acc.Table 2a – 2e                                                                                                                                     |                                    |
| <b>Package „Standard”</b><br>(useful for Organic or verification of eksported/imported food) | PN-EN 15662:2018   | GC-MS/MS   | Substances & LOQ acc.Table 1a – 1e                                                                                                                                     | 700.00                             |
|                                                                                              |                    | LC-MS/MS   | Substances & LOQ acc.Table 2a – 2e                                                                                                                                     |                                    |
|                                                                                              | PN-EN 12396-2:2002 | GC/MS      | Dithiocarbamates expressed as CS <sub>2</sub>                                                                                                                          |                                    |
| <b>Package „APPLE PLUS”</b><br>(dedicated for our fruits)                                    | PN-EN 15662:2018   | GC-MS/MS   | Substances & LOQ acc.Table 1a – 1e                                                                                                                                     | 850.00                             |
|                                                                                              |                    | LC-MS/MS   | Substances & LOQ acc.Table 2a – 2e                                                                                                                                     |                                    |
|                                                                                              |                    | LC-MS/MS   | Substances & LOQ acc.Table 4a or 4b                                                                                                                                    |                                    |
|                                                                                              | PN-EN 12396-2:2002 | GC/MS      | Dithiocarbamates expressed as CS <sub>2</sub>                                                                                                                          |                                    |
| <b>Package „Eko – advanced”</b><br>(useful for cereals)                                      | PN-EN 15662:2018   | GC-MS/MS   | Substances & LOQ acc.Table 1a – 1e                                                                                                                                     | 1350.00                            |
|                                                                                              |                    | LC-MS/MS   | Substances & LOQ acc.Table 2a – 2e                                                                                                                                     |                                    |
|                                                                                              | PN-EN 15662:2018   | GC/MS      | Dithiocarbamates expressed as CS <sub>2</sub>                                                                                                                          |                                    |
|                                                                                              | PN-EN 15662:2018   | LC-MS/MS   | Substances & LOQ acc.Table 3a or 3b                                                                                                                                    |                                    |
|                                                                                              | QuPpe-PO           | LC-MS/MS   | Glyphosate, Trimethyl-sulfonium cation, Glufosynate, Ethephon                                                                                                          |                                    |
|                                                                                              | QuPpe-PO           | LC-MS/MS   | Chlormequat, Mepiquat, Cyromazine                                                                                                                                      |                                    |
| <b>Package „Baby Food”</b><br>(for our children)                                             | PN-EN 15662:2018   | GC-MS/MS   | Substances & LOQ acc.Table 1a – 1e                                                                                                                                     | 900.00                             |
|                                                                                              |                    | LC-MS/MS   | Substances & LOQ acc.Table 2a – 2e                                                                                                                                     |                                    |
|                                                                                              |                    |            | Other pesticides resulting from Reg. of the Minister of Health on foodstuffs for particular nutritional uses (Journal of Laws of 2010, No. 180, item 1214), as amended |                                    |
|                                                                                              | PN-EN 12396-2:2002 | GC-MS      | Dithiocarbamates expressed as CS <sub>2</sub>                                                                                                                          |                                    |
| <b>Package „Baby Food PLUS”</b><br>(additional analyzes – just to be sure)                   | QuPpe-PO           | LC-MS/MS   | Chlormequat, Mepiquat, Cyromazine                                                                                                                                      | 750.00                             |
|                                                                                              | PN-EN 15662:2018   | LC-MS/MS   | Substances & LOQ acc.Table 4a or 4b                                                                                                                                    |                                    |
|                                                                                              |                    |            | Glyphosate, Trimethyl-sulfonium cation, Glufosynate, Ethephon                                                                                                          |                                    |
|                                                                                              |                    |            | Fosetyl-Al, Phosphonic acid, Chlorates, Perchlorates, Bromide ion                                                                                                      |                                    |





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### Suggested Packages – cont.

| The Package                                                                         | The Method       | Technics | The scope of analyze & LOQ*                                         | The net price** (PLN) |
|-------------------------------------------------------------------------------------|------------------|----------|---------------------------------------------------------------------|-----------------------|
| <b>Package „Fungi”</b><br>(dedicated for champignon and oyster mushrooms)           | PN-EN 15662:2018 | LC-MS/MS | Substances & LOQ acc.Table 2a                                       | 700.00                |
|                                                                                     | QuPPe-PO         | LC-MS/MS | Chlormequat, Mepiquat, Cyromazine                                   |                       |
|                                                                                     | PN-EN 15662:2018 | LC-MS/MS | Nicotine                                                            |                       |
| <b>Package „Herbi”</b><br>(useful for assessing herbicidal damage)                  | PN-EN 15662:2018 | LC-MS/MS | Substances & LOQ acc.Table 3a or 3b                                 | 550.00                |
|                                                                                     | QuPPe-PO         | LC-MS/MS | Glyphosate, Trimethyl-sulfonium cation, Glufosynate, Ethephon       |                       |
| <b>Package „Soil”</b><br>(first choice for checking your soil problems)             | PN-EN 15662:2018 | GC-MS/MS | Substances & LOQ acc.Table 5                                        | 550.00                |
|                                                                                     |                  | LC-MS/MS | Substances & LOQ acc.Table 6                                        |                       |
| <b>Package „Soil PLUS”</b><br>(seful for soil assessment in Organic Farming system) | PN-EN 15662:2018 | GC-MS/MS | Substances & LOQ acc.Table 5                                        | 900.00                |
|                                                                                     |                  | LC-MS/MS | Substances & LOQ acc.Table 6                                        |                       |
|                                                                                     |                  | LC-MS/MS | Substances & LOQ acc.Table 3c                                       |                       |
|                                                                                     | QuPPe-PO         | LC-MS/MS | Glyphosate, N-Acetyl Glyphosate, Trimethyl-sulfonium cation, AMPA** |                       |

\* - the current VAT tax (23%) should be added to the net price.

\*\* – non-accredited pesticide



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**Table 1a.** The list of analyzed pesticides and their limits of quantification (LOQ) – GC-MS/MS – fruits & vegs

| No. | Pesticide name       | LOQ [mg/kg] | No.  | Pesticide name        | LOQ [mg/kg] | No.  | Pesticide name     | LOQ [mg/kg] | No.  | Pesticide name        | LOQ [mg/kg] |
|-----|----------------------|-------------|------|-----------------------|-------------|------|--------------------|-------------|------|-----------------------|-------------|
| 1.  | Acetochlor           | 0.005       | 76.  | DDM                   | 0.005       | 151. | Fluchloralin       | 0.005       | 226. | Phenthoate            | 0.005       |
| 2.  | Acrinathrin          | 0.005       | 77.  | DDT-o,p               | 0.005       | 152. | Flucythrinate      | 0.005       | 227. | Phenylphenol          | 0.005       |
| 3.  | Alachlor             | 0.005       | 78.  | DDT-p,p               | 0.005       | 153. | Fludioxonil        | 0.005       | 228. | Phorate               | 0.005       |
| 4.  | Aldrin               | 0.001       | 79.  | Deltamethrin          | 0.005       | 154. | Fluensulfone       | 0.01        | 229. | - sulfone             | 0.01        |
| 5.  | Allethrin            | 0.005       | 80.  | Demeton-S             | 0.005       | 155. | Flumetralin        | 0.005       | 230. | - sulfoxide           | 0.005       |
| 6.  | Ametryn              | 0.005       | 81.  | Desmetryn             | 0.005       | 156. | Flumioxazin        | 0.01        | 231. | Phosalone             | 0.005       |
| 7.  | Aminocarb            | 0.005       | 82.  | Dialifos              | 0.005       | 157. | Fluorodifon        | 0.005       | 232. | Phosfamidon           | 0.005       |
| 8.  | Antraquinone         | 0.005       | 83.  | Diazinon              | 0.005       | 158. | Fluotrimazole      | 0.005       | 233. | Phosmet               | 0.005       |
| 9.  | Atrazine             | 0.005       | 84.  | Dichlobenil           | 0.005       | 159. | Fluquinconazole    | 0.005       | 234. | Phthalimide           | 0.005       |
| 10. | Azaconazole          | 0.005       | 85.  | Dichlofenthion        | 0.005       | 160. | Flurprimidole      | 0.01        | 235. | Picolinafen           | 0.005       |
| 11. | Azinphos ethyl       | 0.005       | 86.  | Dichlofluanid         | 0.005       | 161. | Flurtamone         | 0.01        | 236. | Picoxystrobin         | 0.005       |
| 12. | Azinphos methyl      | 0.005       | 87.  | Dichloroaniline       | 0.005       | 162. | Flusilazole        | 0.005       | 237. | Piperonyl butoxide    | 0.005       |
| 13. | Azoxystrobin         | 0.005       | 88.  | 2,6-Dichlorobenzamide | 0.01        | 163. | Flutianil          | 0.01        | 238. | Piperophos            | 0.005       |
| 14. | Beflubutamid         | 0.005       | 89.  | Dichlorobenzophenone  | 0.005       | 164. | Flutriafol         | 0.005       | 239. | Pirimicarb            | 0.005       |
| 15. | Benalaxyl            | 0.005       | 90.  | Dichlorvos            | 0.005       | 165. | Fluvalinate        | 0.005       | 240. | - desmethyl           | 0.005       |
| 16. | Benfluralin          | 0.005       | 91.  | Diclobutrazol         | 0.005       | 166. | Folpet             | 0.005       | 241. | Pirimiphos ethyl      | 0.01        |
| 17. | Benfuracarb          | 0.005       | 92.  | Dicloran              | 0.005       | 167. | Fonofos            | 0.005       | 242. | Pirimiphos methyl     | 0.005       |
| 18. | Bifenazate           | 0.005       | 93.  | Dicofol               | 0.005       | 168. | Formothion         | 0.005       | 243. | Procymidone           | 0.005       |
| 19. | Bifenazate diazene   | 0.005       | 94.  | Dieldrin              | 0.001       | 169. | Furalaxyl          | 0.005       | 244. | Profenofos            | 0.005       |
| 20. | Bifenox              | 0.005       | 95.  | Diethofencarb         | 0.005       | 170. | Furathiocarb       | 0.005       | 245. | Profluralin           | 0.005       |
| 21. | Bifenthrin           | 0.005       | 96.  | Difenoconazole        | 0.005       | 171. | Halfenprox         | 0.005       | 246. | Prometryn             | 0.005       |
| 22. | Biphenyl             | 0.005       | 97.  | Dimethachlor          | 0.005       | 172. | α-HCH              | 0.005       | 247. | Prometon              | 0.005       |
| 23. | Bitertanol           | 0.005       | 98.  | Dimethoate            | 0.005       | 173. | β-HCH              | 0.005       | 248. | Propachlor            | 0.005       |
| 24. | Boscalid             | 0.005       | 99.  | Dimethomorph          | 0.005       | 174. | Heptachlor         | 0.001       | 249. | Propargite            | 0.005       |
| 25. | Bromfeninfos         | 0.005       | 100. | Dimethylchlorotal     | 0.005       | 175. | - trans epoxide    | 0.0025      | 250. | Propazine             | 0.005       |
| 26. | Bromocyclen          | 0.005       | 101. | Dimoxystrobin         | 0.005       | 176. | - cis epoxide      | 0.0025      | 251. | Propetamphos          | 0.005       |
| 27. | Bromophos ethyl      | 0.005       | 102. | Diniconazole          | 0.005       | 177. | Heptenophos        | 0.005       | 252. | Propham               | 0.005       |
| 28. | Bromophos methyl     | 0.005       | 103. | Dinitramine           | 0.01        | 178. | HCB                | 0.001       | 253. | Propiconazole         | 0.005       |
| 29. | Bromopropylate       | 0.005       | 104. | Dinobuton             | 0.01        | 179. | Hexaconazole       | 0.005       | 254. | Propyzamide           | 0.005       |
| 30. | Bupirimate           | 0.005       | 105. | Dinoseb               | 0.01        | 180. | Imazalil           | 0.005       | 255. | Prothioconazole       | 0.005       |
| 31. | Buprofezin           | 0.005       | 106. | Dioxabenofofos        | 0.005       | 181. | Iprobenfos         | 0.005       | 256. | Prothiofos            | 0.005       |
| 32. | Butachlor            | 0.005       | 107. | Dioksathion           | 0.005       | 182. | Iprodione          | 0.005       | 257. | Pyraclostrobin        | 0.005       |
| 33. | Butafenacil          | 0.005       | 108. | Dioxacarb             | 0.005       | 183. | Isoctabophos       | 0.005       | 258. | Pyrazophos            | 0.005       |
| 34. | Butylate             | 0.005       | 109. | Diphenylamine         | 0.005       | 184. | Isofenphos ethyl   | 0.005       | 259. | Pyrethrins            | 0.05        |
| 35. | Captafol             | 0.005       | 110. | Disulfoton            | 0.001       | 185. | Isofenphos methyl  | 0.005       | 260. | Pyridaben             | 0.005       |
| 36. | Captan               | 0.005       | 111. | - sulfone             | 0.01        | 186. | Isofetamid         | 0.01        | 261. | Pyridalyl             | 0.01        |
| 37. | Carbaryl             | 0.005       | 112. | - sulfoxide           | 0.01        | 187. | Jodofenphos        | 0.005       | 262. | Pyridaphenthion       | 0.01        |
| 38. | Carboxin             | 0.005       | 113. | Ditalimfos            | 0.005       | 188. | Kresoxim methyl    | 0.005       | 263. | Pyrifenoxy            | 0.005       |
| 39. | Chinomethionat       | 0.005       | 114. | DMST                  | 0.005       | 189. | Lindan             | 0.005       | 264. | Pyrimethanil          | 0.005       |
| 40. | Chlorbenside         | 0.005       | 115. | Dodemorph             | 0.005       | 190. | Malaaxon           | 0.005       | 265. | Pyriofenone           | 0.01        |
| 41. | Chlorbufam           | 0.005       | 116. | Edifenphos            | 0.005       | 191. | Malathion          | 0.005       | 266. | Pyriproxyfen          | 0.005       |
| 42. | Chlordane, -cis      | 0.005       | 117. | α-Endosulfan          | 0.005       | 192. | Mandestrobin       | 0.01        | 267. | Pyroquilon            | 0.005       |
| 43. | Chlordane, -oxy      | 0.01        | 118. | β-Endosulfan          | 0.0025      | 193. | Mecarbam           | 0.005       | 268. | Qinoxyfen             | 0.005       |
| 44. | Chlordane, -trans    | 0.01        | 119. | Endosulfan, sulph.    | 0.005       | 194. | Mepanipyrim        | 0.005       | 269. | Quinalphos            | 0.005       |
| 45. | Chlorfenapyr         | 0.005       | 120. | Endrin                | 0.0025      | 195. | Mepromil           | 0.005       | 270. | Quintozene            | 0.005       |
| 46. | Chlorfenson          | 0.005       | 121. | Endrin, ketone        | 0.01        | 196. | Metalaxyl          | 0.005       | 271. | Resmethrin-cis        | 0.005       |
| 47. | Chlorfenvinphos      | 0.005       | 122. | EPN                   | 0.005       | 197. | Metazachlor        | 0.005       | 272. | Silafluofen           | 0.01        |
| 48. | Chlormephos          | 0.005       | 123. | Epoxiconazole         | 0.005       | 198. | Metconazole        | 0.005       | 273. | Simazine              | 0.01        |
| 49. | Chlorobenzilate      | 0.005       | 124. | Esfenvalerate         | 0.005       | 199. | Methacrifos        | 0.005       | 274. | Spiromesifen          | 0.005       |
| 50. | Chloropropylate      | 0.005       | 125. | Etaconazole           | 0.005       | 200. | Methidathion       | 0.005       | 275. | Sulfotep              | 0.005       |
| 51. | Chlorothalonil       | 0.005       | 126. | Ethalfuralin          | 0.005       | 201. | Methoxychlor       | 0.005       | 276. | Tebuconazole          | 0.005       |
| 52. | Chlorpropham         | 0.005       | 127. | Ethion                | 0.005       | 202. | Metolachlor        | 0.005       | 277. | Tebufenpyrad          | 0.005       |
| 53. | Chlorpyrifos         | 0.005       | 128. | Ethofumesate          | 0.005       | 203. | Metribuzin         | 0.005       | 278. | Tecnazene             | 0.005       |
| 54. | Chlorpyrifos-Me      | 0.005       | 129. | -2-keto               | 0.01        | 204. | Mevinphos          | 0.005       | 279. | Tefluthrin            | 0.005       |
| 55. | Chlorthion           | 0.005       | 130. | Ethoprophos           | 0.005       | 205. | Molinate           | 0.01        | 280. | Terbacil              | 0.005       |
| 56. | Chlorthiophos        | 0.005       | 131. | Ethoxyquin            | 0.005       | 206. | Myclobutanil       | 0.005       | 281. | Terbufos              | 0.001       |
| 57. | Clodinafop-propargyl | 0.005       | 132. | Etofenprox            | 0.005       | 207. | Ntralin            | 0.005       | 282. | Terbutryn             | 0.005       |
| 58. | Clomazone            | 0.005       | 133. | Etrifos               | 0.005       | 208. | Nitrapyrin         | 0.005       | 283. | Tetrachlorvinphos     | 0.005       |
| 59. | Coumaphos            | 0.005       | 134. | Fenamiphos            | 0.005       | 209. | Nitrofen           | 0.001       | 284. | Tetraconazole         | 0.005       |
| 60. | Crimidine            | 0.005       | 135. | Fenarimol             | 0.005       | 210. | Nitrofen-isopropyl | 0.005       | 285. | Tetradifon            | 0.005       |
| 61. | Cyanazine            | 0.005       | 136. | Fenazaquin            | 0.005       | 211. | Nuarimol           | 0.005       | 286. | Tetrahydrophthalimide | 0.005       |
| 62. | Cyanofenphos         | 0.005       | 137. | Fenbuconazole         | 0.005       | 212. | Oxadiazon          | 0.01        | 287. | Tetramethrin          | 0.005       |
| 63. | Cyanophos            | 0.005       | 138. | Fenchlorphos          | 0.005       | 213. | Oxadixyl           | 0.005       | 288. | Tetrasul              | 0.005       |
| 64. | Cycloate             | 0.005       | 139. | Fenhexamid            | 0.005       | 214. | Oxyfluorfen        | 0.005       | 289. | Thiobencarb           | 0.01        |
| 65. | Cyfluthrin           | 0.005       | 140. | Fenitrothion          | 0.005       | 215. | Paclobutrazol      | 0.005       | 290. | Tolclofos methyl      | 0.005       |
| 66. | Cyhalothrin, gamma   | 0.005       | 141. | Fenoxycarb            | 0.005       | 216. | Parathion          | 0.005       | 291. | Tolyfluanid           | 0.005       |
| 67. | Cyhalothrin, lambda  | 0.005       | 142. | Fenpropathrin         | 0.005       | 217. | Parathion-Me       | 0.005       | 292. | Triadimefon           | 0.005       |
| 68. | Cypermethrin         | 0.005       | 143. | Fenpropidin           | 0.005       | 218. | Penconazole        | 0.005       | 293. | Triadimenol           | 0.005       |
| 69. | Cyprazine            | 0.01        | 144. | Fenpropimorph         | 0.005       | 219. | Pencycuron         | 0.005       | 294. | Tri-Allate            | 0.005       |
| 70. | Cyproconazole        | 0.005       | 145. | Fenpyrazamine         | 0.01        | 220. | Pendimethalin      | 0.005       | 295. | Triazophos            | 0.005       |
| 71. | Cyprodinil           | 0.005       | 146. | Fenthion              | 0.005       | 221. | Penflufen          | 0.01        | 296. | Trifloxystrobin       | 0.005       |
| 72. | DDD-o,p              | 0.005       | 147. | Fenvalerate           | 0.005       | 222. | Pentachloroaniline | 0.01        | 297. | Triflumizole          | 0.005       |
| 73. | DDD-p,p              | 0.005       | 148. | Fipronil              | 0.001       | 223. | Permethrin         | 0.005       | 298. | Trifluralin           | 0.005       |
| 74. | DDE-o,p              | 0.005       | 149. | - desulfinyl          | 0.0025      | 224. | Pertan             | 0.005       | 299. | Vinclozolin           | 0.005       |
| 75. | DDE-p,p              | 0.005       | 150. | - sulfone             | 0.0025      | 225. | Pethoxamid         | 0.01        |      |                       |             |



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**Table 1b.** The list of analyzed pesticides and their limits of quantification (LOQ) – GC-MS/MS – rape, soybean, oily

| No. | Pesticide name       | LOQ [mg/kg] | No.  | Pesticide name        | LOQ [mg/kg] | No.  | Pesticide name     | LOQ [mg/kg] | No.  | Pesticide name        | LOQ [mg/kg] |
|-----|----------------------|-------------|------|-----------------------|-------------|------|--------------------|-------------|------|-----------------------|-------------|
| 1.  | Acetochlor           | 0.01        | 71.  | DDM                   | 0.01        | 141. | Fluensulfone       | 0.01        | 211. | Phenthoate            | 0.01        |
| 2.  | Acrinathrin          | 0.01        | 72.  | DDT-o,p               | 0.01        | 142. | Flumetralin        | 0.01        | 212. | Phorate               | 0.01        |
| 3.  | Alachlor             | 0.01        | 73.  | DDT-p,p               | 0.01        | 143. | Flumioxazin        | 0.01        | 213. | - sulfone             | 0.01        |
| 4.  | Aldrin               | 0.01        | 74.  | Deltamethrin          | 0.01        | 144. | Fluorodifon        | 0.01        | 214. | - sulfoxide           | 0.01        |
| 5.  | Ametryn              | 0.01        | 75.  | Demeton-S             | 0.01        | 145. | Fluotrimazole      | 0.01        | 215. | Phosalone             | 0.01        |
| 6.  | Aminocarb            | 0.01        | 76.  | Desmetryn             | 0.01        | 146. | Fluquinconazole    | 0.01        | 216. | Phthalimide           | 0.01        |
| 7.  | Anthraquinone        | 0.01        | 77.  | Diazinon              | 0.01        | 147. | Flurprimidole      | 0.01        | 217. | Picolinafen           | 0.01        |
| 8.  | Atrazine             | 0.01        | 78.  | Dichlobenil           | 0.01        | 148. | Flurtamone         | 0.01        | 218. | Picoxystrobin         | 0.01        |
| 9.  | Azaconazole          | 0.01        | 79.  | Dichlofenthion        | 0.01        | 149. | Flusilazole        | 0.01        | 219. | Piperonyl butoxide    | 0.01        |
| 10. | Azinphos ethyl       | 0.01        | 80.  | Dichlofluanid         | 0.01        | 150. | Flutianil          | 0.01        | 220. | Piperophos            | 0.01        |
| 11. | Azinphos methyl      | 0.01        | 81.  | Dichloroaniline       | 0.01        | 151. | Flutriafol         | 0.01        | 221. | Pirimicarb            | 0.01        |
| 12. | Azoxystrobin         | 0.01        | 82.  | 2,6-Dichlorobenzamide | 0.01        | 152. | Fluvalinate        | 0.01        | 222. | - desmethyl           | 0.01        |
| 13. | Beflubutamid         | 0.01        | 83.  | Dichlorobenzophenone  | 0.01        | 153. | Folpet             | 0.01        | 223. | Pirimiphos ethyl      | 0.01        |
| 14. | Benalaxyl            | 0.01        | 84.  | Dichlorvos            | 0.01        | 154. | Fonofos            | 0.01        | 224. | Pirimiphos methyl     | 0.01        |
| 15. | Benfluralin          | 0.01        | 85.  | Diclobutazol          | 0.01        | 155. | Formothion         | 0.01        | 225. | Procymidone           | 0.01        |
| 16. | Bifenazate           | 0.01        | 86.  | Dicloran              | 0.01        | 156. | Furalaxyl          | 0.01        | 226. | Profenofos            | 0.01        |
| 17. | Bifenazate diazene   | 0.01        | 87.  | Dicofol               | 0.01        | 157. | Furathiocarb       | 0.01        | 227. | Profluralin           | 0.01        |
| 18. | Bifenox              | 0.01        | 88.  | Dieldrin              | 0.01        | 158. | Halfenprox         | 0.01        | 228. | Promethryn            | 0.01        |
| 19. | Bifenthrin           | 0.01        | 89.  | Difenoconazole        | 0.01        | 159. | α-HCH              | 0.01        | 229. | Prometon              | 0.01        |
| 20. | Bitertanol           | 0.01        | 90.  | Dimethachlor          | 0.01        | 160. | β-HCH              | 0.01        | 230. | Propachlor            | 0.01        |
| 21. | Boscalid             | 0.01        | 91.  | Dimethomorph          | 0.01        | 161. | Heptachlor         | 0.01        | 231. | Propargite            | 0.01        |
| 22. | Bromfenvinfos        | 0.01        | 92.  | Dimethylchlorotal     | 0.01        | 162. | - cis epoxide      | 0.01        | 232. | Propazine             | 0.01        |
| 23. | Bromocyclen          | 0.01        | 93.  | Dimoxystrobin         | 0.01        | 163. | Heptenophos        | 0.01        | 233. | Propetamphos          | 0.01        |
| 24. | Bromophos ethyl      | 0.01        | 94.  | Diniconazole          | 0.01        | 164. | HCB                | 0.01        | 234. | Propham               | 0.01        |
| 25. | Bromophos methyl     | 0.01        | 95.  | Dinitramine           | 0.01        | 165. | Hexaconazole       | 0.01        | 235. | Propiconazole         | 0.01        |
| 26. | Bromopropylate       | 0.01        | 96.  | Dinobuton             | 0.01        | 166. | Imazalil           | 0.01        | 236. | Propyzamide           | 0.01        |
| 27. | Bupirimate           | 0.01        | 97.  | Dioxabeno fos         | 0.01        | 167. | Iprobenfos         | 0.01        | 237. | Prothioconazole       | 0.01        |
| 28. | Buprofezin           | 0.01        | 98.  | Dioxacarb             | 0.01        | 168. | Iprodione          | 0.01        | 238. | Prothiofos            | 0.01        |
| 29. | Butachlor            | 0.01        | 99.  | Diphenylamine         | 0.01        | 169. | Isocarbophos       | 0.01        | 239. | Pyraclostrobin        | 0.01        |
| 30. | Butafenacil          | 0.01        | 100. | Disulfoton            | 0.01        | 170. | Isofenphos ethyl   | 0.01        | 240. | Pyrazophos            | 0.01        |
| 31. | Butylate             | 0.01        | 101. | - sulfone             | 0.01        | 171. | Isofenphos methyl  | 0.01        | 241. | Pyrethrins            | 0.01        |
| 32. | Captan               | 0.01        | 102. | - sulfoxide           | 0.01        | 172. | Isofetamid         | 0.01        | 242. | Pyridaben             | 0.01        |
| 33. | Carbaryl             | 0.01        | 103. | Ditalimfos            | 0.01        | 173. | Jodofenphos        | 0.01        | 243. | Pyridalyl             | 0.01        |
| 34. | Carboxin             | 0.01        | 104. | Dodemorph             | 0.01        | 174. | Kresoxim methyl    | 0.01        | 244. | Pyrifeno              | 0.01        |
| 35. | Chinomethionat       | 0.01        | 105. | Edifenphos            | 0.01        | 175. | Lindan             | 0.01        | 245. | Pyrimethanil          | 0.01        |
| 36. | Chlorbenside         | 0.01        | 106. | α-Endosulfan          | 0.01        | 176. | Malathion          | 0.01        | 246. | Pyrio fenone          | 0.01        |
| 37. | Chlorbutam           | 0.01        | 107. | β-Endosulfan          | 0.01        | 177. | Mandestrobins      | 0.01        | 247. | Pyriproxyfen          | 0.01        |
| 38. | Chlorfenapyr         | 0.01        | 108. | Endosulfan, sulph.    | 0.01        | 178. | Mecarbam           | 0.01        | 248. | Pyroquilon            | 0.01        |
| 39. | Chlordane, -cis      | 0.01        | 109. | Endrin                | 0.01        | 179. | Mepanipyrim        | 0.01        | 249. | Qinoxyfen             | 0.01        |
| 40. | Chlordane, -oxy      | 0.01        | 110. | EPN                   | 0.01        | 180. | Mepromil           | 0.01        | 250. | Quinalphos            | 0.01        |
| 41. | Chlordane, -trans    | 0.01        | 111. | Epoxyconazole         | 0.01        | 181. | Metalaxyl          | 0.01        | 251. | Quintozene            | 0.01        |
| 42. | Chlorfenson          | 0.01        | 112. | Esfenvalerate         | 0.01        | 182. | Metazachlor        | 0.01        | 252. | Resmethrin-cis        | 0.01        |
| 43. | Chlorfenvinphos      | 0.01        | 113. | Etaconazole           | 0.01        | 183. | Metconazole        | 0.01        | 253. | Silafluofen           | 0.01        |
| 44. | Chlormephos          | 0.01        | 114. | Ethalfuralin          | 0.01        | 184. | Methacrifos        | 0.01        | 254. | Simazine              | 0.01        |
| 45. | Chlorobenzilate      | 0.01        | 115. | Ethion                | 0.01        | 185. | Methidathion       | 0.01        | 255. | Spiromesifen          | 0.01        |
| 46. | Chloropropylate      | 0.01        | 116. | Ethofumesate          | 0.01        | 186. | Methoxychlor       | 0.01        | 256. | Sulfotep              | 0.01        |
| 47. | Chlorothalonil       | 0.01        | 117. | -2-eto                | 0.01        | 187. | Metolachlor        | 0.01        | 257. | Tebuconazole          | 0.01        |
| 48. | Chlorpropham         | 0.01        | 118. | Ethoprophos           | 0.01        | 188. | Metribuzin         | 0.01        | 258. | Tebufenpyrad          | 0.01        |
| 49. | Chlorpyrifos         | 0.005       | 119. | Etofenprox            | 0.01        | 189. | Mevinphos          | 0.01        | 259. | Tecnazene             | 0.01        |
| 50. | Chlorpyrifos-Me      | 0.01        | 120. | Etrinfos              | 0.01        | 190. | Molinate           | 0.01        | 260. | Tefluthrin            | 0.01        |
| 51. | Chlorthion           | 0.01        | 121. | Fenamiphos            | 0.01        | 191. | Myclobutanil       | 0.01        | 261. | Terbacil              | 0.01        |
| 52. | Chlorthiophos        | 0.01        | 122. | Fenarimol             | 0.01        | 192. | Ntralin            | 0.01        | 262. | Terbufos              | 0.01        |
| 53. | Clodinafop-propargyl | 0.01        | 123. | Fenazaquin            | 0.01        | 193. | Nitrapyrin         | 0.01        | 263. | Terbutryn             | 0.01        |
| 54. | Clomazone            | 0.01        | 124. | Fenbuconazole         | 0.01        | 194. | Nitrofen           | 0.01        | 264. | Tetrachlorvinphos     | 0.01        |
| 55. | Coumaphos            | 0.01        | 125. | Fenchlorphos          | 0.01        | 195. | Nitrotal-isopropyl | 0.01        | 265. | Tetraconazole         | 0.01        |
| 56. | Crimidine            | 0.01        | 126. | Fenhexamid            | 0.01        | 196. | Nuarimol           | 0.01        | 266. | Tetradifon            | 0.01        |
| 57. | Cyanofenphos         | 0.01        | 127. | Fenitrothion          | 0.01        | 197. | Oxadiazon          | 0.01        | 267. | Tetrahydrophthalimide | 0.01        |
| 58. | Cyanophos            | 0.01        | 128. | Fenoxycarb            | 0.01        | 198. | Oxadixyl           | 0.01        | 268. | Tetramethrin          | 0.01        |
| 59. | Cycloate             | 0.01        | 129. | Fenpropathrin         | 0.01        | 199. | Oxyfluorfen        | 0.01        | 269. | Tetrasul              | 0.01        |
| 60. | Cyfluthrin           | 0.01        | 130. | Fenpropidin           | 0.01        | 200. | Paclobutrazol      | 0.01        | 270. | Thiobencarb           | 0.01        |
| 61. | Cyhalothrin, gamma   | 0.01        | 131. | Fenpropimorph         | 0.01        | 201. | Parathion          | 0.01        | 271. | Tolclofos methyl      | 0.01        |
| 62. | Cyhalothrin, lambda  | 0.01        | 132. | Fenthion              | 0.01        | 202. | Parathion-Me       | 0.01        | 272. | Tolyfluanid           | 0.01        |
| 63. | Cypermethrin         | 0.01        | 133. | Fenpyrazamine         | 0.01        | 203. | Penconazole        | 0.01        | 273. | Triadimenol           | 0.01        |
| 64. | Cyprazine            | 0.01        | 134. | Fenvalerate           | 0.01        | 204. | Pencycuron         | 0.01        | 274. | Triadimenol           | 0.01        |
| 65. | Cyproconazole        | 0.01        | 135. | Fipronil              | 0.01        | 205. | Pendimethalin      | 0.01        | 275. | Tri-Allate            | 0.01        |
| 66. | Cyprodinil           | 0.01        | 136. | - desulfinyl          | 0.01        | 206. | Penflufen          | 0.01        | 276. | Triazophos            | 0.01        |
| 67. | DDD-o,p              | 0.01        | 137. | - sulfone             | 0.01        | 207. | Pentachloroaniline | 0.01        | 277. | Trifloxystrobin       | 0.01        |
| 68. | DDD-p,p              | 0.01        | 138. | Fluchloralin          | 0.01        | 208. | Permethrin         | 0.01        | 278. | Trifluralin           | 0.01        |
| 69. | DDE-o,p              | 0.01        | 139. | Flucythrinate         | 0.01        | 209. | Perthan            | 0.01        | 279. | Trifluralin           | 0.01        |
| 70. | DDE-p,p              | 0.01        | 140. | Fludioxonil           | 0.01        | 210. | Pethoxamid         | 0.01        | 280. | Vinclozolin           | 0.01        |



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**Table 1c.** The list of analyzed pesticides and their limits of quantification (LOQ) – GC-MS/MS – cereal grain

| No. | Pesticide name       | LOQ [mg/kg] | No.  | Pesticide name        | LOQ [mg/kg] | No.  | Pesticide name     | LOQ [mg/kg] | No.  | Pesticide name        | LOQ [mg/kg] |
|-----|----------------------|-------------|------|-----------------------|-------------|------|--------------------|-------------|------|-----------------------|-------------|
| 1.  | Acetochlor           | 0.005       | 76.  | DDT-o,p               | 0.005       | 151. | Flucythrinate      | 0.005       | 226. | Phenylphenol          | 0.005       |
| 2.  | Acrinathrin          | 0.005       | 77.  | DDT-p,p               | 0.005       | 152. | Fludioxonil        | 0.005       | 227. | Phorate               | 0.005       |
| 3.  | Alachlor             | 0.005       | 78.  | Deltamethrin          | 0.005       | 153. | Fluensulfone       | 0.01        | 228. | - sulfone             | 0,01        |
| 4.  | Aldrin               | 0.0025      | 79.  | Demeton-S             | 0.005       | 154. | Flumetralin        | 0.005       | 229. | - sulfoxide           | 0.005       |
| 5.  | Allethrin            | 0.005       | 80.  | Desmetryn             | 0.005       | 155. | Flumioxazin        | 0,01        | 230. | Phosalone             | 0.005       |
| 6.  | Ametryn              | 0.005       | 81.  | Dialifos              | 0.005       | 156. | Fluorodifon        | 0.005       | 231. | Phosfamidon           | 0.005       |
| 7.  | Aminocarb            | 0.005       | 82.  | Diazinon              | 0.005       | 157. | Flutrimazole       | 0.005       | 232. | Phosmet               | 0.005       |
| 8.  | Antraquinone         | 0.005       | 83.  | Dichlobenil           | 0.005       | 158. | Fluquinconazole    | 0.005       | 233. | Phthalimide           | 0.005       |
| 9.  | Atrazine             | 0.005       | 84.  | Dichlofenthion        | 0.005       | 159. | Flurprimidole      | 0.01        | 234. | Picolinafen           | 0.005       |
| 10. | Azaconazole          | 0.005       | 85.  | Dichlofluanid         | 0,01        | 160. | Flurtamone         | 0,01        | 235. | Picoxystrobin         | 0.005       |
| 11. | Azinphos ethyl       | 0.005       | 86.  | Dichloroaniline       | 0.005       | 161. | Flusilazole        | 0.005       | 236. | Piperonyl butoxide    | 0.005       |
| 12. | Azinphos methyl      | 0.01        | 87.  | 2,6-Dichlorobenzamide | 0,01        | 162. | Flutianil          | 0.01        | 237. | Piperophos            | 0.005       |
| 13. | Azoxystrobin         | 0.005       | 88.  | Dichlorobenzophenone  | 0.005       | 163. | Flutriafol         | 0.005       | 238. | Pirimicarb            | 0.005       |
| 14. | Beflubutamid         | 0.005       | 89.  | Dichlorvos            | 0.005       | 164. | Fluvalinate        | 0.005       | 239. | - desmethyl           | 0.005       |
| 15. | Benalaxyl            | 0.005       | 90.  | Diclobutrazol         | 0.005       | 165. | Folpet             | 0.005       | 240. | Pirimiphos ethyl      | 0,01        |
| 16. | Benfluralin          | 0.005       | 91.  | Dicloran              | 0.005       | 166. | Fonofos            | 0.005       | 241. | Pirimiphos methyl     | 0.005       |
| 17. | Benfuracarb          | 0.005       | 92.  | Dicofol               | 0.005       | 167. | Formothion         | 0.005       | 242. | Procymidone           | 0.005       |
| 18. | Bifenazate           | 0.005       | 93.  | Dieldrin              | 0.0025      | 168. | Furalaxyl          | 0.005       | 243. | Profenofos            | 0.005       |
| 19. | Bifenazate diazene   | 0.01        | 94.  | Diethofencarb         | 0.005       | 169. | Furathiocarb       | 0.005       | 244. | Profluralin           | 0.005       |
| 20. | Bifenox              | 0.005       | 95.  | Difenoconazole        | 0.005       | 170. | Halfenprox         | 0.005       | 245. | Promethryn            | 0.005       |
| 21. | Bifenthrin           | 0.005       | 96.  | Dimethachlor          | 0.005       | 171. | α-HCH              | 0.005       | 246. | Prometon              | 0.005       |
| 22. | Biphenyl             | 0.005       | 97.  | Dimethoate            | 0.005       | 172. | β-HCH              | 0.005       | 247. | Propachlor            | 0.005       |
| 23. | Bitertanol           | 0.005       | 98.  | Dimethomorph          | 0.005       | 173. | Heptachlor         | 0.001       | 248. | Propargite            | 0.005       |
| 24. | Boscalid             | 0.005       | 99.  | Dimethylchlorotal     | 0.005       | 174. | - trans epoxide    | 0.005       | 249. | Propazine             | 0.005       |
| 25. | Bromfenvinfos        | 0.005       | 100. | Dimoxystrobin         | 0.005       | 175. | - cis epoxide      | 0.005       | 250. | Propetamphos          | 0.005       |
| 26. | Bromocyclen          | 0.005       | 101. | Diniconazole          | 0.005       | 176. | Heptenophos        | 0.005       | 251. | Propham               | 0.005       |
| 27. | Bromophos ethyl      | 0.005       | 102. | Dinitramine           | 0.01        | 177. | HCB                | 0.001       | 252. | Propiconazole         | 0.005       |
| 28. | Bromophos methyl     | 0.005       | 103. | Dinobuton             | 0.01        | 178. | Hexaconazole       | 0.005       | 253. | Propyzamide           | 0.005       |
| 29. | Bromopropylate       | 0.005       | 104. | Dinoseb               | 0.01        | 179. | Imazali            | 0.005       | 254. | Prothioconazole       | 0.005       |
| 30. | Bupirimate           | 0.005       | 105. | Dioxabenofofos        | 0.005       | 180. | Iprobenfos         | 0.005       | 255. | Prothiofos            | 0.005       |
| 31. | Buprofezin           | 0.005       | 106. | Dioksathion           | 0.005       | 181. | Iprodione          | 0.005       | 256. | Pyraclostrobin        | 0.005       |
| 32. | Butachlor            | 0.005       | 107. | Dioxacarb             | 0.005       | 182. | Isocarbofos        | 0.005       | 257. | Pyrazophos            | 0.005       |
| 33. | Butafenacil          | 0.005       | 108. | Diphenylamine         | 0.005       | 183. | Isofenphos ethyl   | 0.005       | 258. | Pyrethrins            | 0,1         |
| 34. | Butylate             | 0.005       | 109. | Disulfoton            | 0.001       | 184. | Isofenphos methyl  | 0.005       | 259. | Pyridaben             | 0.005       |
| 35. | Captan               | 0.005       | 110. | - sulfone             | 0.01        | 185. | Isofetamid         | 0.01        | 260. | Pyridalyl             | 0.01        |
| 36. | Carbaryl             | 0.005       | 111. | - sulfoxide           | 0.01        | 186. | Jodofenphos        | 0.005       | 261. | Pyridaphenthion       | 0.01        |
| 37. | Carboxin             | 0.005       | 112. | Ditalimfos            | 0.005       | 187. | Kresoxim methyl    | 0.005       | 262. | Pyrifenoxy            | 0.005       |
| 38. | Chinomethionat       | 0.005       | 113. | DMST                  | 0.005       | 188. | Lindan             | 0.005       | 263. | Pyrimethanil          | 0.005       |
| 39. | Chlorbenside         | 0.005       | 114. | Dodemorph             | 0.005       | 189. | Malaaxon           | 0.005       | 264. | Pyrio fenone          | 0.01        |
| 40. | Chlorbufam           | 0.005       | 115. | Edifenphos            | 0.005       | 190. | Malathion          | 0.005       | 265. | Pyriproxyfen          | 0.005       |
| 41. | Chlordane, -cis      | 0.005       | 116. | α-Endosulfan          | 0.005       | 191. | Mandestrobilin     | 0.01        | 266. | Pyroquilon            | 0.005       |
| 42. | Chlordane, -oxy      | 0.01        | 117. | β-Endosulfan          | 0.0025      | 192. | Mecarbam           | 0.005       | 267. | Qinoxyfen             | 0.005       |
| 43. | Chlordane, -trans    | 0.01        | 118. | Endosulfan, sulph.    | 0.005       | 193. | Mepanipyrim        | 0.005       | 268. | Quinalphos            | 0.005       |
| 44. | Chlorfenapyr         | 0.005       | 119. | Endrin                | 0.01        | 194. | Mepronil           | 0.005       | 269. | Quintozene            | 0.005       |
| 45. | Chlorfenson          | 0.005       | 120. | Endrin, ketone        | 0.01        | 195. | Metalaxyl          | 0.005       | 270. | Resmethrin-cis        | 0.005       |
| 46. | Chlorfenvinphos      | 0.005       | 121. | EPN                   | 0.005       | 196. | Metazachlor        | 0.005       | 271. | Silafluofen           | 0.01        |
| 47. | Chlormephos          | 0.005       | 122. | Epoxyconazole         | 0.005       | 197. | Metconazole        | 0.005       | 272. | Simazine              | 0.01        |
| 48. | Chlorobenzilate      | 0.005       | 123. | Esfenvalerate         | 0.005       | 198. | Methacrifos        | 0.005       | 273. | Spiromesifen          | 0.005       |
| 49. | Chloropropylate      | 0.005       | 124. | Etaconazole           | 0.005       | 199. | Methidathion       | 0.005       | 274. | Sulfotep              | 0.005       |
| 50. | Chlorothalonil       | 0.01        | 125. | Ethalfuralin          | 0.005       | 200. | Methoxychlor       | 0.005       | 275. | Tebuconazole          | 0.005       |
| 51. | Chlorpropham         | 0.005       | 126. | Ethion                | 0.005       | 201. | Metolachlor        | 0.005       | 276. | Tebuconazole          | 0.005       |
| 52. | Chlorpyrifos         | 0.005       | 127. | Ethofumesate          | 0.005       | 202. | Metribuzin         | 0.005       | 277. | Tecnazene             | 0.005       |
| 53. | Chlorpyrifos-Me      | 0.005       | 128. | - 2-keto              | 0.01        | 203. | Mevinphos          | 0.005       | 278. | Tefluthrin            | 0.005       |
| 54. | Chlorthion           | 0.005       | 129. | Ethoprophos           | 0.005       | 204. | Molinate           | 0.01        | 279. | Terbacil              | 0.005       |
| 55. | Chlorthiophos        | 0.005       | 130. | Ethoxyquin            | 0.005       | 205. | Myclobutanil       | 0.005       | 280. | Terbufos              | 0.001       |
| 56. | Clodinafop-propargyl | 0.005       | 131. | Etofenprox            | 0.005       | 206. | Ntralin            | 0.005       | 281. | Terbutryn             | 0.005       |
| 57. | Clomazone            | 0.005       | 132. | Etrifos               | 0.005       | 207. | Nitrapyrin         | 0.005       | 282. | Tetrachlorvinphos     | 0.005       |
| 58. | Coumaphos            | 0.005       | 133. | Fenamiphos            | 0.005       | 208. | Nitrofen           | 0.005       | 283. | Tetraconazole         | 0.005       |
| 59. | Crimidine            | 0.005       | 134. | Fenarimol             | 0.005       | 209. | Nitrofen-isopropyl | 0.005       | 284. | Tetradifon            | 0.005       |
| 60. | Cyanazine            | 0.005       | 135. | Fenazaquin            | 0.005       | 210. | Nuarimol           | 0.005       | 285. | Tetrahydrophthalimide | 0.005       |
| 61. | Cyanofenphos         | 0.005       | 136. | Fenbuconazole         | 0.005       | 211. | Oxadiazon          | 0.01        | 286. | Tetramethrin          | 0.005       |
| 62. | Cyanophos            | 0.005       | 137. | Fenchlorphos          | 0.005       | 212. | Oxadixyl           | 0.005       | 287. | Tetrastul             | 0.005       |
| 63. | Cycloate             | 0.005       | 138. | Fenhexamid            | 0.005       | 213. | Oxyfluorfen        | 0.005       | 288. | Thiobencarb           | 0,01        |
| 64. | Cyfluthrin           | 0.005       | 139. | Fenitrothion          | 0.005       | 214. | Paclobutrazol      | 0.005       | 289. | Tolclofos methyl      | 0.005       |
| 65. | Cyhalothrin, gamma   | 0.005       | 140. | Fenoxycarb            | 0.005       | 215. | Parathion          | 0.005       | 290. | Tolylfluanid          | 0.01        |
| 66. | Cyhalothrin, lambda  | 0.005       | 141. | Fenpropathrin         | 0.005       | 216. | Parathion-Me       | 0.005       | 291. | Triadimefon           | 0.005       |
| 67. | Cypermethrin         | 0.005       | 142. | Fenpropidin           | 0.005       | 217. | Penconazole        | 0.005       | 292. | Triadimenol           | 0.005       |
| 68. | Cyprazine            | 0,01        | 143. | Fenpropimorph         | 0.005       | 218. | Pencycuron         | 0.005       | 293. | Tri-Allate            | 0.005       |
| 69. | Cyproconazole        | 0.005       | 144. | Fenpyrazamine         | 0,01        | 219. | Pendimethalin      | 0.005       | 294. | Triazophos            | 0.005       |
| 70. | Cyprodinil           | 0.005       | 145. | Fenthion              | 0.005       | 220. | Penflufen          | 0,01        | 295. | Trifloxystrobin       | 0.005       |
| 71. | DDD-o,p              | 0.005       | 146. | Fenvalerate           | 0.005       | 221. | Pentachloroaniline | 0,01        | 296. | Triflumizole          | 0.005       |
| 72. | DDD-p,p              | 0.005       | 147. | Fipronil              | 0.005       | 222. | Permethrin         | 0.005       | 297. | Trifluralin           | 0.005       |
| 73. | DDE-o,p              | 0.005       | 148. | - desulfinyl          | 0.0025      | 223. | Perthan            | 0.005       | 298. | Vinclozolin           | 0.005       |
| 74. | DDE-p,p              | 0.005       | 149. | - sulfone             | 0.0025      | 224. | Pethoxamid         | 0,01        |      |                       |             |
| 75. | DDM                  | 0.005       | 150. | Fluchloralin          | 0.005       | 225. | Phenthoate         | 0.005       |      |                       |             |





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**Table 1d.** The list of analyzed pesticides and their limits of quantification (LOQ) – GC-MS/MS – herbs, tea, spices

| No. | Pesticide name       | LOQ [mg/kg] | No.  | Pesticide name        | LOQ [mg/kg] | No.  | Pesticide name     | LOQ [mg/kg] | No.  | Pesticide name        | LOQ [mg/kg] |
|-----|----------------------|-------------|------|-----------------------|-------------|------|--------------------|-------------|------|-----------------------|-------------|
| 1.  | Acetochlor           | 0.01        | 71.  | DDM                   | 0.01        | 141. | Fluensulfone       | 0.01        | 210. | Phorate               | 0.01        |
| 2.  | Acrinathrin          | 0.01        | 72.  | DDT-o,p               | 0.01        | 142. | Flumetralin        | 0.01        | 211. | - sulfone             | 0.01        |
| 3.  | Aldrin               | 0.01        | 73.  | DDT-p,p               | 0.01        | 143. | Fluorodifon        | 0.01        | 212. | - sulfoxide           | 0.01        |
| 4.  | Allethrin            | 0.01        | 74.  | Deltamethrin          | 0.01        | 144. | Fluquinconazole    | 0.01        | 213. | Phosalone             | 0.01        |
| 5.  | Ametryn              | 0.01        | 75.  | Demeton-S             | 0.01        | 145. | Flurprimidole      | 0.01        | 214. | Phosmet               | 0.01        |
| 6.  | Aminocarb            | 0.01        | 76.  | Desmetyrn             | 0.01        | 146. | Flurtamone         | 0.01        | 215. | Phthalimide           | 0.01        |
| 7.  | Anthraquinone        | 0.01        | 77.  | Dialifos              | 0.01        | 147. | Flusilazole        | 0.01        | 216. | Picolinafen           | 0.01        |
| 8.  | Atrazine             | 0.01        | 78.  | Diazinon              | 0.01        | 148. | Flutianil          | 0.01        | 217. | Picoxystrobin         | 0.01        |
| 9.  | Azaconazole          | 0.01        | 79.  | Dichlobenil           | 0.01        | 149. | Flutriafol         | 0.01        | 218. | Piperonyl butoxide    | 0.01        |
| 10. | Azinphos ethyl       | 0.01        | 80.  | Dichlofenthion        | 0.01        | 150. | Fluvalinate        | 0.01        | 219. | Piperophos            | 0.01        |
| 11. | Azinphos methyl      | 0.01        | 81.  | Dichlofluanid         | 0.01        | 151. | Folpet             | 0.01        | 220. | Pyrimicarb            | 0.01        |
| 12. | Azoxystrobin         | 0.01        | 82.  | 2,6-Dichlorobenzamide | 0.01        | 152. | Formothion         | 0.01        | 221. | - desmethyl           | 0.01        |
| 13. | Beflubutamid         | 0.01        | 83.  | Dichlorobenzophenone  | 0.01        | 153. | Furalaxyl          | 0.01        | 222. | Primiphos ethyl       | 0.01        |
| 14. | Benalaxyl            | 0.01        | 84.  | Dichlorvos            | 0.01        | 154. | Furathiocarb       | 0.01        | 223. | Primiphos methyl      | 0.01        |
| 15. | Benfluralin          | 0.01        | 85.  | Diclobutrazol         | 0.01        | 155. | Halfeprox          | 0.01        | 224. | Procymidone           | 0.01        |
| 16. | Benfuracarb          | 0.01        | 86.  | Dicloran              | 0.01        | 156. | α-HCH              | 0.01        | 225. | Profenofos            | 0.01        |
| 17. | Bifenazate           | 0.01        | 87.  | Dicofol               | 0.01        | 157. | β-HCH              | 0.01        | 226. | Profluralin           | 0.01        |
| 18. | Bifenazate diazene   | 0.01        | 88.  | Dieldrin              | 0.01        | 158. | Heptachlor         | 0.01        | 227. | Promethryn            | 0.01        |
| 19. | Bifenox              | 0.01        | 89.  | Diethofencarb         | 0.01        | 159. | - trans epoxide    | 0.01        | 228. | Prometon              | 0.01        |
| 20. | Bifenthrin           | 0.01        | 90.  | Difenoconazole        | 0.01        | 160. | - cis epoxide      | 0.01        | 229. | Propachlor            | 0.01        |
| 21. | Bitertanol           | 0.01        | 91.  | Dimethachlor          | 0.01        | 161. | Heptenophos        | 0.01        | 230. | Propargite            | 0.01        |
| 22. | Boscalid             | 0.01        | 92.  | Dimethoate            | 0.01        | 162. | HCB                | 0.01        | 231. | Propazine             | 0.01        |
| 23. | Bromfeninfos         | 0.01        | 93.  | Dimethomorph          | 0.01        | 163. | Hexaconazole       | 0.01        | 232. | Propetamphos          | 0.01        |
| 24. | Bromocyclofen        | 0.01        | 94.  | Dimethylchlorotal     | 0.01        | 164. | Imazalil           | 0.01        | 233. | Propham               | 0.01        |
| 25. | Bromophos ethyl      | 0.01        | 95.  | Dimoxystrobin         | 0.01        | 165. | Iprobenfos         | 0.01        | 234. | Propanconazole        | 0.01        |
| 26. | Bromophos methyl     | 0.01        | 96.  | Dimiconazole          | 0.01        | 166. | Iprodione          | 0.01        | 235. | Propyzamide           | 0.01        |
| 27. | Bromopropylate       | 0.01        | 97.  | Dinitramine           | 0.01        | 167. | Isocarbophos       | 0.01        | 236. | Prothioconazole       | 0.01        |
| 28. | Bupirimate           | 0.01        | 98.  | Dinobuton             | 0.01        | 168. | Isofenphos ethyl   | 0.01        | 237. | Prothiofos            | 0.01        |
| 29. | Buprofezin           | 0.01        | 99.  | Dinoseb               | 0.01        | 169. | Isofenphos methyl  | 0.01        | 238. | Pyraclostrobin        | 0.01        |
| 30. | Butachlor            | 0.01        | 100. | Dioxabenofofos        | 0.01        | 170. | Isofetamid         | 0.01        | 239. | Pyrazophos            | 0.01        |
| 31. | Butafenacil          | 0.01        | 101. | Diphenylamine         | 0.01        | 171. | Jodofenphos        | 0.01        | 240. | Pyrethrins            | 0.1         |
| 32. | Butylate             | 0.01        | 102. | Disulfoton            | 0.01        | 172. | Kresoxim methyl    | 0.01        | 241. | Pyridaben             | 0.01        |
| 33. | Captan               | 0.01        | 103. | Ditalimfos            | 0.01        | 173. | Lindan             | 0.01        | 242. | Pyridalil             | 0.01        |
| 34. | Carbaryl             | 0.01        | 104. | Edifenphos            | 0.01        | 174. | Malathion          | 0.01        | 243. | Pyridaphenthion       | 0.01        |
| 35. | Carboxin             | 0.01        | 105. | α-Endosulfan          | 0.01        | 175. | Mandestrobilin     | 0.01        | 244. | Pyrifenoxy            | 0.01        |
| 36. | Chinomethionat       | 0.01        | 106. | β-Endosulfan          | 0.01        | 176. | Mecarbam           | 0.01        | 245. | Pyrimethanil          | 0.01        |
| 37. | Chlorbenside         | 0.01        | 107. | Endosulfan, sulfate   | 0.01        | 177. | Mepanipyrim        | 0.01        | 246. | Pyriofenone           | 0.01        |
| 38. | Chlorbufam           | 0.01        | 108. | Endrin                | 0.01        | 178. | Mepromil           | 0.01        | 247. | Pyriproxyfen          | 0.01        |
| 39. | Chlordane, -cis      | 0.01        | 109. | Endrin, ketone        | 0.01        | 179. | Metaxyl            | 0.01        | 248. | Qinoxifen             | 0.01        |
| 40. | Chlordane, -trans    | 0.01        | 110. | EPN                   | 0.01        | 180. | Metazachlor        | 0.01        | 249. | Quinalphos            | 0.01        |
| 41. | Chlorfenapyr         | 0.01        | 111. | Epoxyconazole         | 0.01        | 181. | Metconazole        | 0.01        | 250. | Quintozene            | 0.01        |
| 42. | Chlorfenson          | 0.01        | 112. | Esfenvalerate         | 0.01        | 182. | Methacrifos        | 0.01        | 251. | Silafluofen           | 0.01        |
| 43. | Chlorfenvinphos      | 0.01        | 113. | Etaconazole           | 0.01        | 183. | Methidathion       | 0.01        | 252. | Simazine              | 0.01        |
| 44. | Chlormephos          | 0.01        | 114. | Ethalfuralin          | 0.01        | 184. | Methoxychlor       | 0.01        | 253. | Spiromesifen          | 0.01        |
| 45. | Chlorobenzilate      | 0.01        | 115. | Ethion                | 0.01        | 185. | Metolachlor        | 0.01        | 254. | Sulfotep              | 0.01        |
| 46. | Chloropropylate      | 0.01        | 116. | Ethofumesate          | 0.01        | 186. | Metribuzin         | 0.01        | 255. | Tebuconazole          | 0.01        |
| 47. | Chlorothalonil       | 0.01        | 117. | - 2-keto              | 0.01        | 187. | Mevinphos          | 0.01        | 256. | Tebufenpyrad          | 0.01        |
| 48. | Chlorpropham         | 0.01        | 118. | Ethoprophos           | 0.01        | 188. | Molinate           | 0.01        | 257. | Tecnazene             | 0.01        |
| 49. | Chlorpyrifos         | 0.01        | 119. | Ethoxyquin            | 0.01        | 189. | Myclobutanil       | 0.01        | 258. | Tefluthrin            | 0.01        |
| 50. | Chlorpyrifos-Me      | 0.01        | 120. | Etofenprox            | 0.01        | 190. | Ntralin            | 0.01        | 259. | Terbacil              | 0.01        |
| 51. | Chlorthion           | 0.01        | 121. | Etrimfos              | 0.01        | 191. | Nitrapyrin         | 0.01        | 260. | Terbufos              | 0.01        |
| 52. | Chlorthiophos        | 0.01        | 122. | Fenamiphos            | 0.01        | 192. | Nitrofen           | 0.01        | 261. | Terbutryn             | 0.01        |
| 53. | Clodinafop-propargyl | 0.01        | 123. | Fenarimol             | 0.01        | 193. | Nitrotal-isopropyl | 0.01        | 262. | Tetrachlorvinphos     | 0.01        |
| 54. | Clomazone            | 0.01        | 124. | Fenazaquin            | 0.01        | 194. | Nuarimol           | 0.01        | 263. | Tetraconazole         | 0.01        |
| 55. | Coumaphos            | 0.01        | 125. | Fenbuconazole         | 0.01        | 195. | Oxadiazon          | 0.01        | 264. | Tetradifon            | 0.01        |
| 56. | Crimidine            | 0.01        | 126. | Fenchlorphos          | 0.01        | 196. | Oxadixyl           | 0.01        | 265. | Tetrahydrophthalimide | 0.01        |
| 57. | Cyano fenphos        | 0.01        | 127. | Fenhexamid            | 0.01        | 197. | Oxyfluorofen       | 0.01        | 266. | Tetramethrin          | 0.01        |
| 58. | Cyanophos            | 0.01        | 128. | Fenitrothion          | 0.01        | 198. | Paclobutrazol      | 0.01        | 267. | Tetrasul              | 0.01        |
| 59. | Cycloate             | 0.01        | 129. | Fenpropathrin         | 0.01        | 199. | Parathion          | 0.01        | 268. | Thiobencarb           | 0.01        |
| 60. | Cyfluthrin           | 0.01        | 130. | Fenpropidin           | 0.01        | 200. | Parathion-Me       | 0.01        | 269. | Tolclofos methyl      | 0.01        |
| 61. | Cyhalothrin, gamma   | 0.01        | 131. | Fenpropimorph         | 0.01        | 201. | Penconazole        | 0.01        | 270. | Tolylfluanid          | 0.01        |
| 62. | Cyhalothrin, lambda  | 0.01        | 132. | Fenpyrazamine         | 0.01        | 202. | Pencycuron         | 0.01        | 271. | Triadimefon           | 0.01        |
| 63. | Cypermethrin         | 0.01        | 133. | Fenthion              | 0.01        | 203. | Pendimethalin      | 0.01        | 272. | Triadimenol           | 0.01        |
| 64. | Cyprazine            | 0.01        | 134. | Fenvalerate           | 0.01        | 204. | Penflufen          | 0.01        | 273. | Tri-Allate            | 0.01        |
| 65. | Cyproconazole        | 0.01        | 135. | Fipronil              | 0.01        | 205. | Pentachloroaniline | 0.01        | 274. | Triazophos            | 0.01        |
| 66. | Cyprodinil           | 0.01        | 136. | - desulfinyl          | 0.01        | 206. | Permethrin         | 0.01        | 275. | Trifloxystrobin       | 0.01        |
| 67. | DDD-o,p              | 0.01        | 137. | Fipronil, sulfone     | 0.01        | 207. | Perthan            | 0.01        | 276. | Triflumizole          | 0.01        |
| 68. | DDD-p,p              | 0.01        | 138. | Fluchloralin          | 0.01        | 208. | Pethoxamid         | 0.01        | 277. | Trifluralin           | 0.01        |
| 69. | DDE-o,p              | 0.01        | 139. | Flucythrinate         | 0.01        | 209. | Phenthoate         | 0.01        | 278. | Vinclozolin           | 0.01        |
| 70. | DDE-p,p              | 0.01        | 140. | Fludioxonil           | 0.01        |      |                    |             |      |                       |             |





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**Table 1e.** The list of analyzed pesticides and their limits of quantification (LOQ) – GC-MS/MS – eggs

| No. | Pesticide name       | LOQ [mg/kg] | No.  | Pesticide name        | LOQ [mg/kg] | No.  | Pesticide name       | LOQ [mg/kg] | No.  | Pesticide name        | LOQ [mg/kg] |
|-----|----------------------|-------------|------|-----------------------|-------------|------|----------------------|-------------|------|-----------------------|-------------|
| 1.  | Acetochlor           | 0.005       | 70.  | DDD-o,p               | 0.005       | 139. | Fipronil             | 0.0025      | 208. | Phenylphenol          | 0.005       |
| 2.  | Acrinathrin          | 0.005       | 71.  | DDD-p,p               | 0.005       | 140. | Fipronil, desulfinyl | 0.0025      | 209. | Phorate               | 0.005       |
| 3.  | Alachlor             | 0.005       | 72.  | DDE-o,p               | 0.005       | 141. | Fipronil, sulfone    | 0.0025      | 210. | Phorate sulfone       | 0,01        |
| 4.  | Aldrin               | 0.001       | 73.  | DDE-p,p               | 0.005       | 142. | Fluchloralin         | 0.005       | 211. | Phorate sulfoxide     | 0.005       |
| 5.  | Allethrin            | 0.005       | 74.  | DDM                   | 0.005       | 143. | Flucythrinate        | 0.005       | 212. | Phosalone             | 0.005       |
| 6.  | Ametryn              | 0.005       | 75.  | DDT-o,p               | 0.005       | 144. | Fludioxonil          | 0.005       | 213. | Phosfamidon           | 0.005       |
| 7.  | Aminocarb            | 0.005       | 76.  | DDT-p,p               | 0.005       | 145. | Flumetralin          | 0.005       | 214. | Phosmet               | 0.005       |
| 8.  | Anthraquinone        | 0.005       | 77.  | Deltamethrin          | 0.005       | 146. | Fluorodifon          | 0.005       | 215. | Phthalimide           | 0.005       |
| 9.  | Atrazine             | 0.005       | 78.  | Demeton-S             | 0.005       | 147. | Fluotrimazole        | 0.005       | 216. | Picolinafen           | 0.005       |
| 10. | Azaconazole          | 0.005       | 79.  | Desmetyrn             | 0.005       | 148. | Fluquinconazole      | 0.005       | 217. | Picoxystrobin         | 0.005       |
| 11. | Azinphos ethyl       | 0.005       | 80.  | Dialifos              | 0.005       | 149. | Flurtamone           | 0,01        | 218. | Piperonyl butoxide    | 0.005       |
| 12. | Azinphos methyl      | 0.005       | 81.  | Diazinon              | 0.005       | 150. | Flusilazole          | 0.005       | 219. | Piperophos            | 0.005       |
| 13. | Azoxystrobin         | 0.005       | 82.  | Dichlobenil           | 0.005       | 151. | Flutriafol           | 0.005       | 220. | Pirimicarb            | 0.005       |
| 14. | Beflubutamid         | 0.005       | 83.  | Dichlofenthion        | 0.005       | 152. | Fluvalinate          | 0.005       | 221. | Pirimicarb, desmethyl | 0.005       |
| 15. | Benalaxyl            | 0.005       | 84.  | Dichloroaniline       | 0.005       | 153. | Folpet               | 0.005       | 222. | Pirimiphos methyl     | 0.005       |
| 16. | Benfluralin          | 0.005       | 85.  | 2,6-Dichlorobenzamide | 0,01        | 154. | Fonofos              | 0.005       | 223. | Procymidone           | 0.005       |
| 17. | Benfuracarb          | 0.005       | 86.  | Dichlorobenzophenone  | 0.005       | 155. | Formothion           | 0.005       | 224. | Profenofos            | 0.005       |
| 18. | Bifentazate          | 0.005       | 87.  | Dichlorvos            | 0.005       | 156. | Furalaxyl            | 0.005       | 225. | Profluralin           | 0.005       |
| 19. | Bifenox              | 0.005       | 88.  | Diclobutrazol         | 0.005       | 157. | Furathiocarb         | 0.005       | 226. | Promethryn            | 0.005       |
| 20. | Bifenthrin           | 0.005       | 89.  | Dicloran              | 0.005       | 158. | Halfenprox           | 0.005       | 227. | Prometon              | 0.005       |
| 21. | Biphenyl             | 0.005       | 90.  | Dicofol               | 0.005       | 159. | α-HCH                | 0.005       | 228. | Propachlor            | 0.005       |
| 22. | Bitertanol           | 0.005       | 91.  | Dieldrin              | 0.005       | 160. | β-HCH                | 0.005       | 229. | Propargite            | 0.005       |
| 23. | Boscalid             | 0.005       | 92.  | Diethofencarb         | 0.005       | 161. | Heptachlor           | 0.001       | 230. | Propazine             | 0.005       |
| 24. | Bromfeninfos         | 0.005       | 93.  | Difenoconazole        | 0.005       | 162. | – trans epoxide      | 0.005       | 231. | Propetamphos          | 0.005       |
| 25. | Bromocycien          | 0.005       | 94.  | Dimethachlor          | 0.005       | 163. | – cis epoxide        | 0.0025      | 232. | Propham               | 0.005       |
| 26. | Bromophos ethyl      | 0.005       | 95.  | Dimethoate            | 0.005       | 164. | Heptenophos          | 0.005       | 233. | Propiconazole         | 0.005       |
| 27. | Bromophos methyl     | 0.005       | 96.  | Dimethomorph          | 0.005       | 165. | HCB                  | 0.001       | 234. | Propyzamide           | 0.005       |
| 28. | Bromopropylate       | 0.005       | 97.  | Dimethylchlorotal     | 0.005       | 166. | Hexaconazole         | 0.005       | 235. | Prothioconazole       | 0.005       |
| 29. | Bupirimate           | 0.005       | 98.  | Dimoxystrobin         | 0.005       | 167. | Imazalil             | 0.005       | 236. | Prothiofos            | 0.005       |
| 30. | Buprofezin           | 0.005       | 99.  | Diniconazole          | 0.005       | 168. | Iprobenfos           | 0.005       | 237. | Pyraclostrobin        | 0.005       |
| 31. | Butachlor            | 0.005       | 100. | Dinitramine           | 0,01        | 169. | Iprodione            | 0.005       | 238. | Pyrazophos            | 0.005       |
| 32. | Butafenacil          | 0.005       | 101. | Dinobuton             | 0,01        | 170. | Iscarbophos          | 0.005       | 239. | Pyridaben             | 0.005       |
| 33. | Butylate             | 0.005       | 102. | Dioxabenofofos        | 0.005       | 171. | Isofenphos ethyl     | 0.005       | 240. | Pyrifeno              | 0.005       |
| 34. | Captafol             | 0.005       | 103. | Dioxacarb             | 0.005       | 172. | Isofenphos methyl    | 0.005       | 241. | Pyrimethanil          | 0.005       |
| 35. | Captan               | 0.005       | 104. | Diphenylamine         | 0.005       | 173. | Jodofenphos          | 0.005       | 242. | Pyriproxyfen          | 0.005       |
| 36. | Carbaryl             | 0.005       | 105. | Disulfoton            | 0.001       | 174. | Kresoxim methyl      | 0.005       | 243. | Pyroquilon            | 0.005       |
| 37. | Carboxin             | 0.005       | 106. | Ditalimfos            | 0.005       | 175. | Lindan               | 0.005       | 244. | Qinoxifen             | 0.005       |
| 38. | Chinomethionat       | 0.005       | 107. | DMST                  | 0.005       | 176. | Malaoxon             | 0.005       | 245. | Quinalphos            | 0.005       |
| 39. | Chlorbenside         | 0.005       | 108. | Dodemorph             | 0.005       | 177. | Malathion            | 0.005       | 246. | Quintozene            | 0.005       |
| 40. | Chlorbufam           | 0.005       | 109. | Edifenphos            | 0.005       | 178. | Mecarbam             | 0.005       | 247. | Resmethrin-cis        | 0.005       |
| 41. | Chlordane, -cis      | 0.005       | 110. | α-Endosulfan          | 0.005       | 179. | Mepanipyrim          | 0.005       | 248. | Simazine              | 0,01        |
| 42. | Chlordane, -trans    | 0,01        | 111. | β-Endosulfan          | 0.0025      | 180. | Mepronil             | 0.005       | 249. | Spiromesifen          | 0.005       |
| 43. | Chlorfenapyr         | 0.005       | 112. | Endosulfan, sulph.    | 0.005       | 181. | Metalaxyl            | 0.005       | 250. | Sulfotep              | 0.005       |
| 44. | Chlorfenson          | 0.005       | 113. | Endrin                | 0.005       | 182. | Metazachlor          | 0.005       | 251. | Tebuconazole          | 0.005       |
| 45. | Chlorfenvinphos      | 0.005       | 114. | EPN                   | 0.005       | 183. | Metconazole          | 0.005       | 252. | Tebuconazole          | 0.005       |
| 46. | Chlormephos          | 0.005       | 115. | Epoxiconazole         | 0.005       | 184. | Methactrifos         | 0.005       | 253. | Tebuconazole          | 0.005       |
| 47. | Chlorobenzilate      | 0.005       | 116. | Esfenvalerate         | 0.005       | 185. | Methidathion         | 0.005       | 254. | Tefluthrin            | 0.005       |
| 48. | Chloropropylate      | 0.005       | 117. | Etaconazole           | 0.005       | 186. | Methoxychlor         | 0.005       | 255. | Terbacil              | 0.005       |
| 49. | Chlorothalonil       | 0.005       | 118. | Ethalfuralin          | 0.005       | 187. | Metolachlor          | 0.005       | 256. | Terbufos              | 0.001       |
| 50. | Chlorpropham         | 0.005       | 119. | Ethion                | 0.005       | 188. | Metribuzin           | 0.005       | 257. | Terbutryn             | 0.005       |
| 51. | Chlorpyrifos         | 0.005       | 120. | Ethofumesate          | 0.005       | 189. | Mevinphos            | 0.005       | 258. | Tetrachlorvinphos     | 0.005       |
| 52. | Chlorpyrifos-Me      | 0.005       | 121. | Ethoprophos           | 0.005       | 190. | Myclobutanil         | 0.005       | 259. | Tetraconazole         | 0.005       |
| 53. | Chlorthion           | 0.005       | 122. | Ethoxyquin            | 0.005       | 191. | Ntralin              | 0.005       | 260. | Tetradifon            | 0.005       |
| 54. | Chlorthiophos        | 0.005       | 123. | Etofenprox            | 0.005       | 192. | Nitrapyrin           | 0.005       | 261. | TetrahydroPhthalimide | 0.005       |
| 55. | Clodinafop-propargyl | 0.005       | 124. | Etrinfos              | 0.005       | 193. | Nitrofen             | 0.005       | 262. | Tetramethrin          | 0.005       |
| 56. | Clomazone            | 0.005       | 125. | Fenamiphos            | 0.005       | 194. | Nitrotrai-isopropyl  | 0.005       | 263. | Thiobencarb           | 0,01        |
| 57. | Coumaphos            | 0.005       | 126. | Fenarimol             | 0.005       | 195. | Nuarimol             | 0.005       | 264. | Tolclofos methyl      | 0.005       |
| 58. | Crimidine            | 0.005       | 127. | Fenazaquin            | 0.005       | 196. | Oxadixyl             | 0.005       | 265. | Triadimefon           | 0.005       |
| 59. | Cyanazine            | 0.005       | 128. | Fenbuconazole         | 0.005       | 197. | Oxyfluorofen         | 0.005       | 266. | Triadimenol           | 0.005       |
| 60. | Cyanofenphos         | 0.005       | 129. | Fenchlorphos          | 0.005       | 198. | Paclobutrazol        | 0.005       | 267. | Tri-Allate            | 0.005       |
| 61. | Cyanophos            | 0.005       | 130. | Fenhexamid            | 0.005       | 199. | Parathion            | 0.005       | 268. | Triazophos            | 0.005       |
| 62. | Cycloate             | 0.005       | 131. | Fenitrothion          | 0.005       | 200. | Parathion-Me         | 0.005       | 269. | Trifloxystrobin       | 0.005       |
| 63. | Cyfluthrin           | 0.005       | 132. | Fenoxycarb            | 0.005       | 201. | Penconazole          | 0.005       | 270. | Triflumizole          | 0.005       |
| 64. | Cyhalothrin, gamma   | 0.005       | 133. | Fenpropathrin         | 0.005       | 202. | Pencycuro            | 0.005       | 271. | Trifluralin           | 0.005       |
| 65. | Cyhalothrin, lambda  | 0.005       | 134. | Fenpropidin           | 0.005       | 203. | Pendimethalin        | 0.005       | 272. | Vinclozolin           | 0.005       |
| 66. | Cypermethrin         | 0.005       | 135. | Fenpropimorph         | 0.005       | 204. | Pentachloroaniline   | 0,01        |      |                       |             |
| 67. | Cyprazine            | 0,01        | 136. | Fenpyrazamine         | 0,01        | 205. | Permethrin           | 0.005       |      |                       |             |
| 68. | Cyproconazole        | 0.005       | 137. | Fenthion              | 0.005       | 206. | Perthian             | 0.005       |      |                       |             |
| 69. | Cyprodinil           | 0.005       | 138. | Fenvalerate           | 0.005       | 207. | Phenthoate           | 0.005       |      |                       |             |



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**Table 2a.** The list of analyzed pesticides and their limits of quantification (LOQ) – LC-MS/MS – fruits & vegs

| No. | Pesticide name          | LOQ [mg/kg] | No.  | Pesticide name       | LOQ [mg/kg] | No.  | Pesticide name     | LOQ [mg/kg] | No.  | Pesticide name        | LOQ [mg/kg] |
|-----|-------------------------|-------------|------|----------------------|-------------|------|--------------------|-------------|------|-----------------------|-------------|
| 1.  | Abamectin               | 0.01        | 62.  | Diuron               | 0.01        | 123. | Isoproturon        | 0.005       | 184. | Prosulfocarb          | 0.005       |
| 2.  | Acephate                | 0.01        | 63.  | DMF Amitraz          | 0.005       | 124. | Isoprazam          | 0.005       | 185. | Prosulfuron           | 0.005       |
| 3.  | Acetamiprid             | 0.005       | 64.  | DMPF Amitraz         | 0.005       | 125. | Isoxaben           | 0.005       | 186. | Pymetrozine           | 0.02        |
| 4.  | Acifluorfen             | 0.01        | 65.  | Emamectin            | 0.01        | 126. | Isoxaflutol        | 0.005       | 187. | Pyridaben             | 0.005       |
| 5.  | Aldicarb                | 0.01        | 66.  | Ethamsulfuron methyl | 0.005       | 127. | Isoxathion         | 0.005       | 188. | Pyridafol             | 0.01        |
| 6.  | - sulfone               | 0.01        | 67.  | Ethiofencarb         | 0.01        | 128. | Lenacil            | 0.01        | 189. | Pyrifenoxy            | 0.01        |
| 7.  | - sulfoxide             | 0.01        | 68.  | Ethirimol            | 0.01        | 129. | Linuron            | 0.005       | 190. | Pyriproxyfen          | 0.01        |
| 8.  | Ametoctradin            | 0.005       | 69.  | Etoxadole            | 0.005       | 130. | Lufenuron          | 0.01        | 191. | Pyroquilon            | 0.01        |
| 9.  | Amidosulfuron           | 0.005       | 70.  | Famoxadone           | 0.01        | 131. | Malaoxon           | 0.005       | 192. | Pyroxulam             | 0.005       |
| 10. | Amisulbrom              | 0.01        | 71.  | Fenamidone           | 0.005       | 132. | Malathion          | 0.01        | 193. | Quinclorac            | 0.01        |
| 11. | Azadirachtin            | 0.01        | 72.  | Fenamiphos           | 0.005       | 133. | Mandipropamid      | 0.005       | 194. | Quinoclamine          | 0.01        |
| 12. | Aziprotine              | 0.01        | 73.  | - sulfone            | 0.005       | 134. | Metaflumizone      | 0.01        | 195. | Quizalofop ethyl      | 0.005       |
| 13. | Azoxystrobin            | 0.005       | 74.  | - sulfoxide          | 0.005       | 135. | Metalaxyl          | 0.005       | 196. | Rimsulfuron           | 0.01        |
| 14. | Beflubutamid            | 0.01        | 75.  | Fenbuconazole        | 0.005       | 136. | Metamitron         | 0.01        | 197. | Rotenone              | 0.01        |
| 15. | Bendiocarb              | 0.01        | 76.  | Fenfuram             | 0.01        | 137. | Metazachlor        | 0.01        | 198. | Saflufenacil          | 0.005       |
| 16. | Benthialacarb isopropyl | 0.01        | 77.  | Fenhexamid           | 0.01        | 138. | Methamidophos      | 0.01        | 199. | Silthiofam            | 0.005       |
| 17. | Benzovindifluopyr       | 0.005       | 78.  | Fenobucarb           | 0.01        | 139. | Methiocarb         | 0.005       | 200. | Spinetoram            | 0.01        |
| 18. | Bixafen                 | 0.01        | 79.  | Fenoxaprop-P-ethyl   | 0.005       | 140. | - sulfone          | 0.01        | 201. | Spinosad              | 0.005       |
| 19. | Boscalid                | 0.005       | 80.  | Fenpropidin          | 0.01        | 141. | - sulfoxide        | 0.005       | 202. | Spirodiclofen         | 0.005       |
| 20. | Bromacil                | 0.01        | 81.  | Fenpropimorph        | 0.005       | 142. | Methomyl           | 0.01        | 203. | Spirotetramat         | 0.005       |
| 21. | Bromuconazole           | 0.01        | 82.  | Fenpyroximate        | 0.005       | 143. | Methoprotinyl      | 0.01        | 204. | - Enol                | 0.005       |
| 22. | Cadusafos               | 0.0025      | 83.  | Fenprothion          | 0.0025      | 144. | Methoxyfenozide    | 0.005       | 205. | - Ketohydroxy         | 0.005       |
| 23. | Carbaryl                | 0.005       | 84.  | - oxon               | 0.0025      | 145. | Metholachlor-S     | 0.005       | 206. | - Enol-glucoside      | 0.005       |
| 24. | Carbendazim             | 0.005       | 85.  | - oxon-sulfon        | 0.0025      | 146. | Metobromuron       | 0.01        | 207. | - Monohydroxy         | 0.005       |
| 25. | Carbetamid              | 0.01        | 86.  | - sulfon             | 0.0025      | 147. | Metosulam          | 0.01        | 208. | Spiroxamine           | 0.005       |
| 26. | Carbofuran              | 0.005       | 87.  | Fenthion             | 0.01        | 148. | Metoxuron          | 0.01        | 209. | Sulfometuron methyl   | 0.005       |
| 27. | Carbofuran, 3-hydroxy   | 0.005       | 88.  | - oxon               | 0.01        | 149. | Metrafenone        | 0.005       | 210. | Sulfosulfuron         | 0.01        |
| 28. | Carbofuran, 3-keto      | 0.01        | 89.  | - oxon-sulfone       | 0.01        | 150. | Metsulfuron methyl | 0.005       | 211. | Sulfoxaflor           | 0.01        |
| 29. | Carfentrazon ethyl      | 0.01        | 90.  | - sulfone            | 0.01        | 151. | Monocrotophos      | 0.005       | 212. | Tebuconazole          | 0.01        |
| 30. | Chlorantraniliprole     | 0.005       | 91.  | - sulfoxide          | 0.01        | 152. | Monuron            | 0.01        | 213. | Tebufenozide          | 0.005       |
| 31. | Chloridazon             | 0.005       | 92.  | Flazasulfuron        | 0.005       | 153. | Napropamide        | 0.005       | 214. | Tebufenpyrad          | 0.005       |
| 32. | Chlorotoluron           | 0.005       | 93.  | Flonicamid           | 0.005       | 154. | Nicosulfuron       | 0.005       | 215. | Teflubenzuron         | 0.01        |
| 33. | Chlorpyrifos            | 0.01        | 94.  | Florasulam           | 0.01        | 155. | Nitenpyram         | 0.01        | 216. | Tepaloxymid           | 0.01        |
| 34. | Chlorisulfuron          | 0.005       | 95.  | Flufenacet           | 0.005       | 156. | Novaluron          | 0.005       | 217. | Terbufos              | 0.01        |
| 35. | Chromafenozide          | 0.01        | 96.  | Flufenoxuron         | 0.005       | 157. | Omethoate          | 0.0025      | 218. | - oxon                | 0.01        |
| 36. | Clodinafop propargyl    | 0.01        | 97.  | Fluopicolide         | 0.005       | 158. | Oxadixyl           | 0.005       | 219. | - sulfone             | 0.01        |
| 37. | Clofentezine            | 0.005       | 98.  | Fluopyram            | 0.005       | 159. | Oxamyl             | 0.005       | 220. | - sulfoxide           | 0.005       |
| 38. | Clothianidin            | 0.01        | 99.  | Flupyradifurone      | 0.01        | 160. | Oxycarboxin        | 0.01        | 221. | Terbutylazine         | 0.005       |
| 39. | Cyantraniliprole        | 0.01        | 100. | Fluxapyroxad         | 0.01        | 161. | Paraoxon methyl    | 0.005       | 222. | Thiabendazole         | 0.005       |
| 40. | Cyazofamid              | 0.005       | 101. | Fluoxastrobin        | 0.005       | 162. | Parathion          | 0.01        | 223. | Thiacloprid           | 0.005       |
| 41. | Cycloxydim              | 0.01        | 102. | Flurochloridone      | 0.01        | 163. | Parathion methyl   | 0.01        | 224. | Thiamethoxam          | 0.005       |
| 42. | Cyflufenamid            | 0.005       | 103. | Flutianil            | 0.01        | 164. | Pencycuron         | 0.005       | 225. | Thiencarbazon methyl  | 0.005       |
| 43. | Cyflumetofen            | 0.005       | 104. | Flutolanil           | 0.005       | 165. | Pendimethalin      | 0.005       | 226. | Thifensulfuron methyl | 0.01        |
| 44. | Cymiazol                | 0.01        | 105. | Flutriafol           | 0.01        | 166. | Pentflufen         | 0.01        | 227. | Thiodicarb            | 0.005       |
| 45. | Cymoxanil               | 0.005       | 106. | Foramsulfuron        | 0.005       | 167. | Penthiopyrad       | 0.01        | 228. | Thiometon             | 0.01        |
| 46. | Cyproconazole           | 0.01        | 107. | Formetanate          | 0.01        | 168. | Pethoxamid         | 0.01        | 229. | Thiophanate methyl    | 0.005       |
| 47. | DEET                    | 0.01        | 108. | Fosfiazate           | 0.01        | 169. | Phenmedipham       | 0.01        | 230. | Tolfenpyrad           | 0.01        |
| 48. | Demeton S methyl        | 0.0025      | 109. | Fuberidazol          | 0.005       | 170. | Phenthoate         | 0.005       | 231. | Topramezone           | 0.01        |
| 49. | - sulfone               | 0.0025      | 110. | Halo fenozide        | 0.01        | 171. | Phosmet            | 0.005       | 232. | Tralkoxydim           | 0.01        |
| 50. | - sulfoxide             | 0.0025      | 111. | Hexaflumuron         | 0.005       | 172. | Phosmet oxon       | 0.01        | 233. | Trichlorfon           | 0.01        |
| 51. | Desmedipham             | 0.01        | 112. | Hexythiazox          | 0.005       | 173. | Phoxim             | 0.01        | 234. | Tricyclazole          | 0.01        |
| 52. | Dicofthophos            | 0.01        | 113. | Imazalil             | 0.01        | 174. | Pinoxaden          | 0.005       | 235. | Tridemorph            | 0.01        |
| 53. | Diethofencarb           | 0.005       | 114. | Imazapic             | 0.01        | 175. | Piperonyl butoxide | 0.01        | 236. | Trifluralin           | 0.01        |
| 54. | Diffubenzuron           | 0.005       | 115. | Imidacloprid         | 0.01        | 176. | Prochloraz         | 0.005       | 237. | Trifluralin           | 0.01        |
| 55. | Disulfenican            | 0.01        | 116. | Indoxacarb           | 0.005       | 177. | - BTS 44595        | 0.01        | 238. | Trisulfuron methyl    | 0.01        |
| 56. | Dimethenamid            | 0.005       | 117. | Iodosulfuron methyl  | 0.01        | 178. | - BTS 44596        | 0.01        | 239. | Triticonazol          | 0.01        |
| 57. | Dimethoate              | 0.005       | 118. | Iproconazole         | 0.01        | 179. | Propamocarb        | 0.005       | 240. | Tritosulfuron         | 0.01        |
| 58. | Dinotefuran             | 0.01        | 119. | Iprovalicarb         | 0.005       | 180. | Propaquizafop      | 0.005       | 241. | Zoxamide              | 0.005       |
| 59. | Disulfoton              | 0.01        | 120. | Isofetamid           | 0.01        | 181. | Propoxur           | 0.01        |      |                       |             |
| 60. | - sulfone               | 0.005       | 121. | Isoprocarb           | 0.01        | 182. | Propoxycarbazon    | 0.01        |      |                       |             |
| 61. | - sulfoxide             | 0.005       | 122. | Isoprotiolane        | 0.01        | 183. | Proquinazid        | 0.005       |      |                       |             |



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**Table 2b.** The list of analyzed pesticides and their limits of quantification (LOQ) – LC-MS/MS – rape, soybean, oily

| No. | Pesticide name         | LOQ [mg/kg] | No.  | Pesticide name         | LOQ [mg/kg] | No.  | Pesticide name     | LOQ [mg/kg] | No.  | Pesticide name        | LOQ [mg/kg] |
|-----|------------------------|-------------|------|------------------------|-------------|------|--------------------|-------------|------|-----------------------|-------------|
| 1.  | Abamectin              | 0.01        | 62.  | Diuron                 | 0.01        | 121. | Isoprothiolane     | 0.01        | 179. | Propoxycarbazone      | 0.01        |
| 2.  | Accephate              | 0.01        | 63.  | DMF Amitraz            | 0.01        | 122. | Isoproturon        | 0.01        | 180. | Proquinazid           | 0.01        |
| 3.  | Acetamiprid            | 0.01        | 64.  | DMPF Amitraz           | 0.01        | 123. | Isopyrazam         | 0.01        | 181. | Prosulfocarb          | 0.01        |
| 4.  | Aclonifen              | 0.01        | 65.  | Emamectin              | 0.01        | 124. | Isoxaben           | 0.01        | 182. | Prosulfuron           | 0.01        |
| 5.  | Aldicarb               | 0.01        | 66.  | Ethametsulfuron methyl | 0.01        | 125. | Isoxaflutol        | 0.01        | 183. | Pymetrozine           | 0.01        |
| 6.  | - sulfone              | 0.01        | 67.  | Ethiofencarb           | 0.01        | 126. | Isoxathion         | 0.01        | 184. | Pyridaben             | 0.01        |
| 7.  | - sulfoxide            | 0.01        | 68.  | Ethirimol              | 0.01        | 127. | Lenacil            | 0.01        | 185. | Pyridafol             | 0.01        |
| 8.  | Ametoctradin           | 0.01        | 69.  | Etozazole              | 0.01        | 128. | Limuron            | 0.01        | 186. | Pyrifenoxy            | 0.01        |
| 9.  | Amidosulfuron          | 0.01        | 70.  | Famoxadone             | 0.01        | 129. | Lufenuron          | 0.01        | 187. | Pyriproxyfen          | 0.01        |
| 10. | Amisulbrom             | 0.01        | 71.  | Fenamidone             | 0.01        | 130. | Malaoxon           | 0.01        | 188. | Pyroquilon            | 0.01        |
| 11. | Azadirachtin           | 0.01        | 72.  | Fenamiphos             | 0.01        | 131. | Malathion          | 0.01        | 189. | Pyroxulam             | 0.01        |
| 12. | Aziprotine             | 0.01        | 73.  | - sulfone              | 0.01        | 132. | Mandipropamid      | 0.01        | 190. | Quinoclamine          | 0.1         |
| 13. | Azoxystrobin           | 0.01        | 74.  | - sulfoxide            | 0.01        | 133. | Metaflumizone      | 0.01        | 191. | Quizalofop ethyl      | 0.01        |
| 14. | Beflubutamid           | 0.01        | 75.  | Fenbuconazole          | 0.01        | 134. | Metaxyl            | 0.01        | 192. | Rimsulfuron           | 0.01        |
| 15. | Bendiocarb             | 0.01        | 76.  | Fenfuram               | 0.01        | 135. | Metamitron         | 0.01        | 193. | Rotenone              | 0.01        |
| 16. | Benthivacarb isopropyl | 0.01        | 77.  | Fenhexamid             | 0.01        | 136. | Metazachlor        | 0.01        | 194. | Saflufenacil          | 0.01        |
| 17. | Benzovindifluopyr      | 0.01        | 78.  | Fenobucarb             | 0.01        | 137. | Methamidophos      | 0.01        | 195. | Silthiofam            | 0.01        |
| 18. | Bixafen                | 0.01        | 79.  | Fenoxaprop-P-ethyl     | 0.01        | 138. | Methiocarb         | 0.01        | 196. | Spinetoram            | 0.01        |
| 19. | Boscalid               | 0.01        | 80.  | Fenpropidin            | 0.01        | 139. | - sulfone          | 0.01        | 197. | Spinosad              | 0.01        |
| 20. | Bromacil               | 0.01        | 81.  | Fenpropimorph          | 0.01        | 140. | - sulfoxide        | 0.01        | 198. | Spirodiclofen         | 0.01        |
| 21. | Bromuconazole          | 0.01        | 82.  | Fenpyroximate          | 0.01        | 141. | Methomyl           | 0.01        | 199. | Spirotetramat         | 0.01        |
| 22. | Cadusafos              | 0.01        | 83.  | Fensulfotrhion         | 0.01        | 142. | Methoprotetryne    | 0.01        | 200. | - Enol                | 0.01        |
| 23. | Carbaryl               | 0.01        | 84.  | - oxon                 | 0.01        | 143. | Methoxyfenozide    | 0.01        | 201. | - Ketohydroxy         | 0.01        |
| 24. | Carbendazim            | 0.01        | 85.  | - oxon-sulfone         | 0.01        | 144. | Metholachlor-S     | 0.01        | 202. | - Enol-glucoside      | 0.01        |
| 25. | Carbetamid             | 0.01        | 86.  | - sulfone              | 0.01        | 145. | Metobromuron       | 0.01        | 203. | - Monohydroxy         | 0.01        |
| 26. | Carbofuran             | 0.01        | 87.  | Fenthion               | 0.01        | 146. | Metosulam          | 0.01        | 204. | Spiroxamine           | 0.01        |
| 27. | Carbofuran. 3-hydroxy  | 0.01        | 88.  | - oxon                 | 0.01        | 147. | Metoxuron          | 0.01        | 205. | Sulfometuron methyl   | 0.005       |
| 28. | Carbofuran. 3-keto     | 0.01        | 89.  | - oxon-sulfone         | 0.01        | 148. | Metrafenone        | 0.01        | 206. | Sulfosulfuron         | 0.01        |
| 29. | Carfentrazone ethyl    | 0.01        | 90.  | - sulfone              | 0.01        | 149. | Metsulfuron methyl | 0.01        | 207. | Sulfoxaflo            | 0.01        |
| 30. | Chlorantraniliprole    | 0.01        | 91.  | - sulfoxide            | 0.01        | 150. | Monocrotophos      | 0.01        | 208. | Tebuconazole          | 0.01        |
| 31. | Chloridazon            | 0.01        | 92.  | Fonicamid              | 0.005       | 151. | Monuron            | 0.01        | 209. | Tebufenozide          | 0.01        |
| 32. | Chlorotoluron          | 0.01        | 93.  | Florasulam             | 0.01        | 152. | Napropamide        | 0.01        | 210. | Tebufenpyrad          | 0.01        |
| 33. | Chlorpyrifos           | 0.01        | 94.  | Flufenacet             | 0.01        | 153. | Nicosulfuron       | 0.01        | 211. | Teflubenzuron         | 0.01        |
| 34. | Chlorsulfuron          | 2           | 95.  | Flufenoxuron           | 0.01        | 154. | Nitenpyram         | 0.01        | 212. | Tepaloxymid           | 0.01        |
| 35. | Chromafenozide         | 0.01        | 96.  | Fluopicolide           | 0.01        | 155. | Omethoate          | 0.01        | 213. | Terbufos              | 0.01        |
| 36. | Clodinafop propargyl   | 0.01        | 97.  | Fluopyram              | 0.01        | 156. | Oxadixyl           | 0.01        | 214. | - oxon                | 0.01        |
| 37. | Clofentezine           | 0.01        | 98.  | Flupyradifurone        | 0.01        | 157. | Oxamyl             | 0.01        | 215. | - sulfone             | 0.01        |
| 38. | Clothianidin           | 0.01        | 99.  | Fluxapyroxad           | 0.01        | 158. | Oxycarboxin        | 0.01        | 216. | - sulfoxide           | 0.01        |
| 39. | Cyantraniliprole       | 0.01        | 100. | Fluoxastrobin          | 0.01        | 159. | Paraoxon methyl    | 0.01        | 217. | Terbutylazine         | 0.01        |
| 40. | Cyazofamid             | 0.01        | 101. | Flurochloridone        | 0.01        | 160. | Parathion          | 0.01        | 218. | Thiabendazole         | 0.01        |
| 41. | Cycloxydim             | 0.01        | 102. | Flutianil              | 0.01        | 161. | Parathion methyl   | 0.01        | 219. | Thiacloprid           | 0.01        |
| 42. | Cyflufenamid           | 0.01        | 103. | Flutolanil             | 0.01        | 162. | Pencycuron         | 0.01        | 220. | Thiamethoxam          | 0.01        |
| 43. | Cyflumetofen           | 0.01        | 104. | Flutriafol             | 0.01        | 163. | Pendimethalin      | 0.01        | 221. | Thiencarbazone methyl | 0.01        |
| 44. | Cymiazol               | 0.01        | 105. | Foramsulfuron          | 0.01        | 164. | Penthiopyrad       | 0.01        | 222. | Thifensulfuron methyl | 0.01        |
| 45. | Cymoxanil              | 0.01        | 106. | Formetanate            | 0.01        | 165. | Pethoxamid         | 0.01        | 223. | Thiometon             | 0.01        |
| 46. | Cyproconazole          | 0.01        | 107. | Fosfiazate             | 0.01        | 166. | Phenmedipham       | 0.01        | 224. | Thiophanate methyl    | 0.01        |
| 47. | DEET                   | 0.01        | 108. | Fuberidazole           | 0.01        | 167. | Phenthoate         | 0.01        | 225. | Tolfenpyrad           | 0.01        |
| 48. | Demeton S methyl       | 0.01        | 109. | Halofenozide           | 0.01        | 168. | Phosmet            | 0.01        | 226. | Topramezone           | 0.01        |
| 49. | - sulfone              | 0.01        | 110. | Hexaflumuron           | 0.01        | 169. | Phosmet oxon       | 0.01        | 227. | Tralkoxydim           | 0.01        |
| 50. | - sulfoxide            | 0.01        | 111. | Hexythiazox            | 0.01        | 170. | Phoxim             | 0.01        | 228. | Trichlorfon           | 0.01        |
| 51. | Desmedipham            | 0.01        | 112. | Imazalil               | 0.01        | 171. | Pinoxaden          | 0.01        | 229. | Tricyclazole          | 0.01        |
| 52. | Diclotophos            | 0.01        | 113. | Imazapic               | 0.01        | 172. | Piperonyl butoxide | 0.01        | 230. | Tridemorph            | 0.01        |
| 53. | Diethofencarb          | 0.01        | 114. | Imidacloprid           | 0.01        | 173. | Prochloraz         | 0.01        | 231. | Trifluzimazole        | 0.01        |
| 54. | Diflufenzuron          | 0.01        | 115. | Indoxacarb             | 0.01        | 174. | - BTS 44595        | 0.01        | 232. | Triflururon           | 0.01        |
| 55. | Diflufenican           | 0.01        | 116. | Iodosulfuron methyl    | 0.01        | 175. | - BTS 44596        | 0.01        | 233. | Trisulfuron methyl    | 0.01        |
| 56. | Dimethenamid           | 0.01        | 117. | Ipcnazole              | 0.01        | 176. | Propamocarb        | 0.01        | 234. | Triticonazole         | 0.01        |
| 57. | Dimethoate             | 0.01        | 118. | Iprovalicarb           | 0.01        | 177. | Propaquizafop      | 0.01        | 235. | Tritosulfuron         | 0.01        |
| 58. | Dinotefuran            | 0.01        | 119. | Isofetamid             | 0.01        | 178. | Propoxur           | 0.01        | 236. | Zoxamide              | 0.01        |
| 59. | Disulfoton             | 0.01        | 120. | Isoprocab              | 0.01        |      |                    |             |      |                       |             |
| 60. | - sulfone              | 0.01        |      |                        |             |      |                    |             |      |                       |             |
| 61. | - sulfoxide            | 0.01        |      |                        |             |      |                    |             |      |                       |             |





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**Table 2c.** The list of analyzed pesticides and their limits of quantification (LOQ) – LC-MS/MS – cereals, grain

| No. | Pesticide name          | LOQ [mg/kg] | No.  | Pesticide name         | LOQ [mg/kg] | No.  | Pesticide name     | LOQ [mg/kg] | No.  | Pesticide name        | LOQ [mg/kg] |
|-----|-------------------------|-------------|------|------------------------|-------------|------|--------------------|-------------|------|-----------------------|-------------|
| 1.  | Abamectin               | 0.005       | 62.  | Diuron                 | 0.005       | 121. | Isoprocab          | 0.005       | 180. | Propoxur              | 0.005       |
| 2.  | Acephate                | 0.005       | 63.  | DMF Amitraz            | 0.005       | 122. | Isoprothiolane     | 0.005       | 181. | Propoxycarbazon       | 0.005       |
| 3.  | Acetamiprid             | 0.005       | 64.  | DMPF Amitraz           | 0.005       | 123. | Isoproturon        | 0.005       | 182. | Proquinazid           | 0.005       |
| 4.  | Acifluorfen             | 0.005       | 65.  | Emamectin              | 0.005       | 124. | Isopyrazam         | 0.005       | 183. | Prosulfocarb          | 0.005       |
| 5.  | Aldicarb                | 0.005       | 66.  | Ethametsulfuron methyl | 0.01        | 125. | Isoxaben           | 0.01        | 184. | Prosulfuron           | 0.01        |
| 6.  | - sulfone               | 0.005       | 67.  | Ethiofencarb           | 0.005       | 126. | Isoxaflutol        | 0.01        | 185. | Pymetrozine           | 0.01        |
| 7.  | - sulfoxide             | 0.005       | 68.  | Ethirimol              | 0.005       | 127. | Isoxathion         | 0.01        | 186. | Pyridaben             | 0.005       |
| 8.  | Ametoctradin            | 0.005       | 69.  | Etoxadone              | 0.005       | 128. | Lenacil            | 0.005       | 187. | Pyrifenoxy            | 0.005       |
| 9.  | Amidosulfuron           | 0.005       | 70.  | Famoxadone             | 0.005       | 129. | Linuron            | 0.005       | 188. | Pyriproxyfen          | 0.005       |
| 10. | Amisulbrom              | 0.005       | 71.  | Fenamidone             | 0.005       | 130. | Lufenuron          | 0.005       | 189. | Pyroquilon            | 0.005       |
| 11. | Azadirachtin            | 0.01        | 72.  | Fenamiphos             | 0.005       | 131. | Malaoxon           | 0.005       | 190. | Pyroxulam             | 0.01        |
| 12. | Azirotrine              | 0.005       | 73.  | - sulfone              | 0.005       | 132. | Malathion          | 0.005       | 191. | Quinoclamine          | 0.005       |
| 13. | Azoxystrobin            | 0.005       | 74.  | - sulfoxide            | 0.005       | 133. | Mandipropamid      | 0.005       | 192. | Quizalofop ethyl      | 0.005       |
| 14. | Beflubutamid            | 0.005       | 75.  | Fenbuconazole          | 0.005       | 134. | Metaflumizone      | 0.01        | 193. | Rotenone              | 0.01        |
| 15. | Bendiocarb              | 0.005       | 76.  | Fenfuram               | 0.005       | 135. | Metaxyl            | 0.005       | 194. | Saflufenacil          | 0.01        |
| 16. | Benthialicarb isopropyl | 0.005       | 77.  | Fenhexamid             | 0.01        | 136. | Metamitron         | 0.01        | 195. | Silthiofam            | 0.005       |
| 17. | Benzovindifluopyr       | 0.01        | 78.  | Fenobucarb             | 0.005       | 137. | Metazachlor        | 0.01        | 196. | Spinetoram            | 0.005       |
| 18. | Bixafen                 | 0.005       | 79.  | Fenoxaprop-P-ethyl     | 0.005       | 138. | Methamidophos      | 0.005       | 197. | Spinosad              | 0.005       |
| 19. | Boscalid                | 0.005       | 80.  | Fenpropidin            | 0.005       | 139. | Methiocarb         | 0.005       | 198. | Spirodiclofen         | 0.005       |
| 20. | Bromacil                | 0.01        | 81.  | Fenpropimorph          | 0.005       | 140. | - sulfone          | 0.005       | 199. | Spirotetramat         | 0.005       |
| 21. | Bromuconazole           | 0.005       | 82.  | Fenpyroximate          | 0.005       | 141. | - sulfoxide        | 0.005       | 200. | - Enol                | 0.01        |
| 22. | Cadusafos               | 0.0025      | 83.  | Fensulfotiothion       | 0.0025      | 142. | Methomyl           | 0.005       | 201. | - Ketohydroxy         | 0.005       |
| 23. | Carbaryl                | 0.005       | 84.  | - oxon                 | 0.0025      | 143. | Methoprotetryne    | 0.01        | 202. | - Enol-glucoside      | 0.005       |
| 24. | Carbendazim             | 0.005       | 85.  | - oxon-sulfone         | 0.0025      | 144. | Methoxyfenozide    | 0.005       | 203. | - Monohydroxy         | 0.005       |
| 25. | Carbetamid              | 0.005       | 86.  | - sulfone              | 0.0025      | 145. | Metholachlor-S     | 0.005       | 204. | Spiroxamine           | 0.005       |
| 26. | Carbofuran              | 0.005       | 87.  | Fenthion               | 0.005       | 146. | Metobromuron       | 0.01        | 205. | Sulfometuron methyl   | 0.005       |
| 27. | Carbofuran, 3-hydroxy   | 0.005       | 88.  | - oxon                 | 0.01        | 147. | Metoxuron          | 0.005       | 206. | Sulfosulfuron         | 0.005       |
| 28. | Carbofuran, 3-keto      | 0.005       | 89.  | - oxon-sulfone         | 0.01        | 148. | Metrafenone        | 0.005       | 207. | Sulfosaxiflor         | 0.01        |
| 29. | Carfentrazone ethyl     | 0.01        | 90.  | - sulfone              | 0.01        | 149. | Metsulfuron methyl | 0.005       | 208. | Tebuconazole          | 0.005       |
| 30. | Chlorantraniliprole     | 0.005       | 91.  | - sulfoxide            | 0.005       | 150. | Monocrotophos      | 0.005       | 209. | Tebufenozide          | 0.005       |
| 31. | Chloridazon             | 0.005       | 92.  | Flazasulfuron          | 0.01        | 151. | Monuron            | 0.005       | 210. | Tebufenpyrad          | 0.005       |
| 32. | Chlorotoluron           | 0.005       | 93.  | Flonicamid             | 0.005       | 152. | Napropamid         | 0.005       | 211. | Teflubenzuron         | 0.005       |
| 33. | Chlorpyrifos            | 0.005       | 94.  | Florasulam             | 0.01        | 153. | Nicosulfuron       | 0.01        | 212. | Tepraloxymid          | 0.005       |
| 34. | Chlorsulfuron           | 0.005       | 95.  | Flufenacet             | 0.005       | 154. | Nitenpyram         | 0.01        | 213. | Terbufos              | 0.005       |
| 35. | Chromafenozide          | 0.005       | 96.  | Flufenoxuron           | 0.005       | 155. | Novaluron          | 0.01        | 214. | - oxon                | 0.01        |
| 36. | Clodinafop propargyl    | 0.01        | 97.  | Fluopicolide           | 0.005       | 156. | Omethoate          | 0.0025      | 215. | - sulfone             | 0.005       |
| 37. | Clofentezine            | 0.005       | 98.  | Fluopyram              | 0.005       | 157. | Oxadixyl           | 0.005       | 216. | - sulfoxide           | 0.005       |
| 38. | Clothianidin            | 0.01        | 99.  | Flupyradifurone        | 0.01        | 158. | Oxamyl             | 0.005       | 217. | Terbutylazine         | 0.005       |
| 39. | Cyantraniliprole        | 0.01        | 100. | Fluxapyroxad           | 0.005       | 159. | Oxycarboxin        | 0.005       | 218. | Thiabendazole         | 0.005       |
| 40. | Cyazofamid              | 0.005       | 101. | Fluoxastrobin          | 0.005       | 160. | Paraoxon methyl    | 0.005       | 219. | Thiacloprid           | 0.005       |
| 41. | Cycloxydim              | 0.01        | 102. | Flurochloridone        | 0.005       | 161. | Parathion          | 0.005       | 220. | Thiamethoxam          | 0.005       |
| 42. | Cyflufenamid            | 0.005       | 103. | Flutianil              | 0.01        | 162. | Parathion methyl   | 0.005       | 221. | Thiencarbazon methyl  | 0.01        |
| 43. | Cymiazol                | 0.005       | 104. | Flutolanil             | 0.005       | 163. | Pencycuron         | 0.005       | 222. | Thifensulfuron methyl | 0.005       |
| 44. | Cyflumetofen            | 0.01        | 105. | Flutriafol             | 0.005       | 164. | Pendimethalin      | 0.005       | 223. | Thiodicarb            | 0.01        |
| 45. | Cymoxanil               | 0.005       | 106. | Foramsulfuron          | 0.01        | 165. | Penflufen          | 0.01        | 224. | Thiometon             | 0.005       |
| 46. | Cyproconazole           | 0.005       | 107. | Formetanate            | 0.005       | 166. | Penthiopyrad       | 0.005       | 225. | Thiophanate methyl    | 0.005       |
| 47. | DEET                    | 0.005       | 108. | Fosfiazate             | 0.001       | 167. | Pethoxamid         | 0.005       | 226. | Tolfenpyrad           | 0.01        |
| 48. | Demeton S methyl        | 0.0025      | 109. | Fuberidazol            | 0.005       | 168. | Phenmedipham       | 0.005       | 227. | Topramezone           | 0.01        |
| 49. | - sulfone               | 0.0025      | 110. | Halofenozide           | 0.01        | 169. | Phenthoate         | 0.005       | 228. | Tralkoxydim           | 0.005       |
| 50. | - sulfoxide             | 0.0025      | 111. | Hexaflumuron           | 0.01        | 170. | Phosmet            | 0.005       | 229. | Trichlorfon           | 0.005       |
| 51. | Desmedipham             | 0.005       | 112. | Hexythiazox            | 0.005       | 171. | Phosmet oxon       | 0.01        | 230. | Tricyclazole          | 0.005       |
| 52. | Dicofenophos            | 0.005       | 113. | Imazalil               | 0.005       | 172. | Phoxim             | 0.005       | 231. | Tridemorph            | 0.01        |
| 53. | Diethofencarb           | 0.005       | 114. | Imazapic               | 0.01        | 173. | Pinoxaden          | 0.005       | 232. | Trifluralin           | 0.01        |
| 54. | Diffenbuzuron           | 0.005       | 115. | Imidacloprid           | 0.005       | 174. | Piperonyl butoxide | 0.005       | 233. | Trifluralin           | 0.01        |
| 55. | Diffenfenican           | 0.005       | 116. | Indoxacarb             | 0.005       | 175. | Prochloraz         | 0.005       | 234. | Trisulfuron methyl    | 0.005       |
| 56. | Dimethenamid            | 0.005       | 117. | Iodosulfuron methyl    | 0.01        | 176. | - BTS 44595        | 0.005       | 235. | Triticonazol          | 0.005       |
| 57. | Dimethoate              | 0.005       | 118. | Iproconazole           | 0.005       | 177. | - BTS 44596        | 0.005       | 236. | Tritosulfuron         | 0.01        |
| 58. | Dinotefuran             | 0.01        | 119. | Iprovalicarb           | 0.005       | 178. | Propamocarb        | 0.005       | 237. | Zoxamide              | 0.005       |
| 59. | Disulfoton              | 0.01        | 120. | Isofetamid             | 0.01        | 179. | Propaquizafop      | 0.005       |      |                       |             |
| 60. | - sulfone               | 0.005       |      |                        |             |      |                    |             |      |                       |             |
| 61. | - sulfoxide             | 0.005       |      |                        |             |      |                    |             |      |                       |             |



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**Table 2d.** The list of analyzed pesticides and their limits of quantification (LOQ) – LC-MS/MS – herbs dry, tea

| No. | Pesticide name         | LOQ [mg/kg] | No.  | Pesticide name       | LOQ [mg/kg] | No.  | Pesticide name     | LOQ [mg/kg] | No.  | Pesticide name        | LOQ [mg/kg] |
|-----|------------------------|-------------|------|----------------------|-------------|------|--------------------|-------------|------|-----------------------|-------------|
| 1.  | Abamectin              | 0.01        | 60.  | Diuron               | 0.01        | 119. | Isoprazam          | 0.01        | 175. | Propoxur              | 0.01        |
| 2.  | Acephate               | 0.01        | 61.  | DMF Amitraz          | 0.01        | 120. | Isoxaben           | 0.01        | 176. | Propoxycarbazon       | 0.01        |
| 3.  | Acetamiprid            | 0.01        | 62.  | DMPF Amitraz         | 0.01        | 121. | Isoxaflutol        | 0.01        | 177. | Proquinazid           | 0.01        |
| 4.  | Aclonifen              | 0.01        | 63.  | Emamectin            | 0.01        | 122. | Isoxathion         | 0.01        | 178. | Prosulfocarb          | 0.01        |
| 5.  | Aldicarb               | 0.01        | 64.  | Ethamsulfuron methyl | 0.01        | 123. | Lenacil            | 0.01        | 179. | Prosulfuron           | 0.01        |
| 6.  | - sulfone              | 0.01        | 65.  | Ethiofencarb         | 0.01        | 124. | Linuron            | 0.01        | 180. | Pyridaben             | 0.01        |
| 7.  | - sulfoxide            | 0.01        | 66.  | Ethirimol            | 0.01        | 125. | Lufenuron          | 0.01        | 181. | Pyridafol             | 0.01        |
| 8.  | Ametoctradin           | 0.01        | 67.  | Etoxazole            | 0.01        | 126. | Malaoxon           | 0.01        | 182. | Pyrifeno              | 0.01        |
| 9.  | Amidosulfuron          | 0.01        | 68.  | Famoxadone           | 0.01        | 127. | Malathion          | 0.01        | 183. | Pyriproxyfen          | 0.01        |
| 10. | Amisulbrom             | 0.01        | 69.  | Fenamidone           | 0.01        | 128. | Mandipropamid      | 0.01        | 184. | Pyroquilon            | 0.01        |
| 11. | Azadirachtin           | 0.01        | 70.  | Fenamiphos           | 0.01        | 129. | Metaflumizone      | 0.01        | 185. | Pyroxulam             | 0.01        |
| 12. | Aziprotine             | 0.01        | 71.  | - sulfone            | 0.01        | 130. | Metalaxyl          | 0.01        | 186. | Quinoclamine          | 0.01        |
| 13. | Azoxystrobin           | 0.01        | 72.  | - sulfoxide          | 0.01        | 131. | Metamitron         | 0.01        | 187. | Quizalofop ethyl      | 0.01        |
| 14. | Beflubutamid           | 0.01        | 73.  | Fenbuconazole        | 0.01        | 132. | Metazachlor        | 0.01        | 188. | Rimsulfuron           | 0.01        |
| 15. | Bendiocarb             | 0.01        | 74.  | Fenfuram             | 0.01        | 133. | Methamidophos      | 0.01        | 189. | Rotenone              | 0.01        |
| 16. | Benthivacarb isopropyl | 0.01        | 75.  | Fenhexamid           | 0.01        | 134. | Methiocarb         | 0.01        | 190. | Saflufenacil          | 0.01        |
| 17. | Benzovindifluopyr      | 0.01        | 76.  | Fenobucarb           | 0.01        | 135. | - sulfone          | 0.01        | 191. | Silthiofam            | 0.01        |
| 18. | Bixafen                | 0.01        | 77.  | Fenoxaprop-P-ethyl   | 0.01        | 136. | - sulfoxide        | 0.01        | 192. | Spinetoram            | 0.01        |
| 19. | Boscalid               | 0.01        | 78.  | Fenpropidin          | 0.01        | 137. | Methomyl           | 0.01        | 193. | Spinosad              | 0.01        |
| 20. | Bromacil               | 0.01        | 79.  | Fenpropimorph        | 0.01        | 138. | Methoxyprotryne    | 0.01        | 194. | Spirodiclofen         | 0.01        |
| 21. | Bromuconazole          | 0.01        | 80.  | Fenpyroximate        | 0.01        | 139. | Methoxyfenozide    | 0.01        | 195. | Spirotetramat         | 0.01        |
| 22. | Cadusafos              | 0.01        | 81.  | Fensulfothion        | 0.01        | 140. | Metholachlor-S     | 0.01        | 196. | - Enol                | 0.01        |
| 23. | Carbaryl               | 0.01        | 82.  | - oxon               | 0.01        | 141. | Metobromuron       | 0.01        | 197. | - Ketohydroxy         | 0.01        |
| 24. | Carbendazim            | 0.01        | 83.  | - oxon-sulfone       | 0.01        | 142. | Metosulam          | 0.01        | 198. | - Enol-glucoside      | 0.01        |
| 25. | Carbetamid             | 0.01        | 84.  | - sulfone            | 0.01        | 143. | Metoxuron          | 0.01        | 199. | - Monohydroxy         | 0.01        |
| 26. | Carbofuran             | 0.01        | 85.  | Fenthion             | 0.01        | 144. | Metrafenone        | 0.01        | 200. | Spiroxamine           | 0.01        |
| 27. | Carbofuran. 3-hydroxy  | 0.01        | 86.  | - oxon               | 0.01        | 145. | Metsulfuron methyl | 0.01        | 201. | Sulfosulfuron         | 0.01        |
| 28. | Carbofuran. 3-keto     | 0.01        | 87.  | - oxon-sulfone       | 0.01        | 146. | Monocrotophos      | 0.01        | 202. | Sulfoxaflor           | 0.01        |
| 29. | Carfentrazone ethyl    | 0.01        | 88.  | - sulfone            | 0.01        | 147. | Monuron            | 0.01        | 203. | Tebuconazole          | 0.01        |
| 30. | Chlorantraniliprole    | 0.01        | 89.  | - sulfoxide          | 0.01        | 148. | Napropamide        | 0.01        | 204. | Tebufenozide          | 0.01        |
| 31. | Chloridazon            | 0.01        | 90.  | Flonicamid           | 0.01        | 149. | Nicosulfuron       | 0.01        | 205. | Tebufenpyrad          | 0.01        |
| 32. | Chlorotoluron          | 0.01        | 91.  | Florasulam           | 0.01        | 150. | Nitenpyram         | 0.01        | 206. | Teflubenzuron         | 0.01        |
| 33. | Chlorpyrifos           | 0.01        | 92.  | Flufenacet           | 0.01        | 151. | Novaluron          | 0.01        | 207. | Terbufos              | 0.01        |
| 34. | Chlorsulfuron          | 0.01        | 93.  | Flufenoxuron         | 0.01        | 152. | Omethoate          | 0.01        | 208. | - oxon                | 0.01        |
| 35. | Chromafenozide         | 0.01        | 94.  | Fluopicolide         | 0.01        | 153. | Oxadixyl           | 0.01        | 209. | - sulfone             | 0.01        |
| 36. | Clodinafop propargyl   | 0.01        | 95.  | Fluopyram            | 0.01        | 154. | Oxamyl             | 0.01        | 210. | - sulfoxide           | 0.01        |
| 37. | Clofentazine           | 0.01        | 96.  | Flupyradifurone      | 0.01        | 155. | Oxycarboxin        | 0.01        | 211. | Terbutylazine         | 0.01        |
| 38. | Clothianidin           | 0.01        | 97.  | Fluxapyroxad         | 0.01        | 156. | Paraaxon methyl    | 0.01        | 212. | Thiabenzazole         | 0.01        |
| 39. | Cyantraniliprole       | 0.01        | 98.  | Fluoxastrobil        | 0.01        | 157. | Parathion          | 0.01        | 213. | Thiacloprid           | 0.01        |
| 40. | Cyazofamid             | 0.01        | 99.  | Flurochloridone      | 0.01        | 158. | Parathion methyl   | 0.01        | 214. | Thiamethoxam          | 0.01        |
| 41. | Cyflufenamid           | 0.01        | 100. | Flutianil            | 0.01        | 159. | Pencycuron         | 0.01        | 215. | Thiencarbazon methyl  | 0.01        |
| 42. | Cyflumetofen           | 0.01        | 101. | Flutolanil           | 0.01        | 160. | Pendimethalin      | 0.01        | 216. | Thifensulfuron methyl | 0.01        |
| 43. | Cymiazol               | 0.01        | 102. | Flutriafol           | 0.01        | 161. | Penthiopyrad       | 0.01        | 217. | Thiodicarb            | 0.01        |
| 44. | Cymoxanil              | 0.01        | 103. | Foramsulfuron        | 0.01        | 162. | Pethoxamid         | 0.01        | 218. | Thiometon             | 0.01        |
| 45. | Cyproconazole          | 0.01        | 104. | Formetanate          | 0.01        | 163. | Phenmedipham       | 0.01        | 219. | Thiophanate methyl    | 0.01        |
| 46. | DEET                   | 0.01        | 105. | Fosfiazate           | 0.01        | 164. | Phenthoate         | 0.01        | 220. | Tolfenpyrad           | 0.01        |
| 47. | Demeton S methyl       | 0.01        | 106. | Fuberidazol          | 0.01        | 165. | Phosmet            | 0.01        | 221. | Topramezone           | 0.01        |
| 48. | - sulfone              | 0.01        | 107. | Halo fenozide        | 0.01        | 166. | Phosmet oxon       | 0.01        | 222. | Tralkoxydim           | 0.01        |
| 49. | - sulfoxide            | 0.01        | 108. | Hexythiazox          | 0.01        | 167. | Phoxim             | 0.01        | 223. | Trichlorfon           | 0.01        |
| 50. | Desmedipham            | 0.01        | 109. | Imazalil             | 0.01        | 168. | Pinoxaden          | 0.01        | 224. | Tricyclazole          | 0.01        |
| 51. | Diclotophos            | 0.01        | 110. | Imidacloprid         | 0.01        | 169. | Piperonyl butoxide | 0.01        | 225. | Tridemorph            | 0.01        |
| 52. | Diethofencarb          | 0.01        | 111. | Indoxacarb           | 0.01        | 170. | Prochloraz         | 0.01        | 226. | Triflurizol           | 0.01        |
| 53. | Diflubenazuron         | 0.01        | 112. | Iodosulfuron methyl  | 0.01        | 171. | - BTS 44595        | 0.01        | 227. | Triflurumuron         | 0.01        |
| 54. | Dimethenamid           | 0.01        | 113. | Ipconazole           | 0.01        | 172. | - BTS 44596        | 0.01        | 228. | Triticonazol          | 0.01        |
| 55. | Dimethoate             | 0.01        | 114. | Iprovalicarb         | 0.01        | 173. | Propamocarb        | 0.01        | 229. | Tritosulfurone        | 0.01        |
| 56. | Dinotefuran            | 0.01        | 115. | Isofetamid           | 0.01        | 174. | Propaquizafop      | 0.01        | 230. | Zoxamide              | 0.01        |
| 57. | Disulfoton             | 0.01        | 116. | Isoprocarb           | 0.01        |      |                    |             |      |                       |             |
| 58. | - sulfone              | 0.01        | 117. | Isoprothiolane       | 0.01        |      |                    |             |      |                       |             |
| 59. | - sulfoxide            | 0.01        | 118. | Isoproturon          | 0.01        |      |                    |             |      |                       |             |



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**Table 2e.** The list of analyzed pesticides and their limits of quantification (LOQ) – LC-MS/MS – eggs

| No. | Pesticide name            | LOQ [mg/kg] | No.  | Pesticide name        | LOQ [mg/kg] | No.  | Pesticide name      | LOQ [mg/kg] | No.  | Pesticide name        | LOQ [mg/kg] |
|-----|---------------------------|-------------|------|-----------------------|-------------|------|---------------------|-------------|------|-----------------------|-------------|
| 1.  | Abamectin                 | 0.01        | 51.  | Dimethenamid          | 0.01        | 102. | Iprovalicarb        | 0.01        | 153. | Propoxur              | 0.01        |
| 2.  | Acephate                  | 0.01        | 52.  | Dimethoate            | 0.01        | 103. | Isoprocarb          | 0.01        | 154. | Propoxycarbazono      | 0.01        |
| 3.  | Acetamiprid               | 0.01        | 53.  | Disulfoton. sulfon    | 0.01        | 104. | Isoprothiolane      | 0.01        | 155. | Proquinazid           | 0.01        |
| 4.  | Acifluorfen               | 0.01        | 54.  | Disulfoton. sulfoxide | 0.01        | 105. | Isoproturon         | 0.01        | 156. | Prosulfocarb          | 0.01        |
| 5.  | Aldicarb                  | 0.01        | 55.  | Diuron                | 0.01        | 106. | Isopyrazam          | 0.01        | 157. | Pyridaben             | 0.01        |
| 6.  | - sulfon                  | 0.01        | 56.  | DMF Amitraz           | 0.01        | 107. | Lenacil             | 0.01        | 158. | Pyridafol             | 0.01        |
| 7.  | - sulfoxide               | 0.01        | 57.  | DMPF Amitraz          | 0.01        | 108. | Linuron             | 0.01        | 159. | Pyrifenoxy            | 0.01        |
| 8.  | Ametoctradin              | 0.01        | 58.  | Emamectin             | 0.01        | 109. | Lufenuron           | 0.01        | 160. | Pyriproxyfen          | 0.01        |
| 9.  | Amidosulfuron             | 0.01        | 59.  | Ethiofencarb          | 0.01        | 110. | Malaoxon            | 0.01        | 161. | Pyroquilon            | 0.01        |
| 10. | Amisulbrom                | 0.01        | 60.  | Ethirimol             | 0.01        | 111. | Malathion           | 0.01        | 162. | Pyroxulam             | 0.01        |
| 11. | Azadirachtin              | 0.01        | 61.  | Etoxazole             | 0.01        | 112. | Mandipropamid       | 0.01        | 163. | Quinoclamine          | 0.1         |
| 12. | Azirotine                 | 0.01        | 62.  | Fenoxadone            | 0.01        | 113. | Metaflumizone       | 0.01        | 164. | Quizalofop ethyl      | 0.01        |
| 13. | Azoxystrobin              | 0.01        | 63.  | Fenamidone            | 0.01        | 114. | Metaxyl             | 0.01        | 165. | Rimsulfuron           | 0.01        |
| 14. | Beflubutamid              | 0.01        | 64.  | Fenamiphos            | 0.01        | 115. | Methamidophos       | 0.01        | 166. | Rotenone              | 0.01        |
| 15. | Bendiocarb                | 0.01        | 65.  | - sulfon              | 0.01        | 116. | Methiocarb          | 0.01        | 167. | Silthiofam            | 0.01        |
| 16. | Benthiavalicarb isopropyl | 0.01        | 66.  | - sulfoxide           | 0.01        | 117. | - sulfon            | 0.01        | 168. | Spinetoram            | 0.01        |
| 17. | Bixafen                   | 0.01        | 67.  | Fenbuconazole         | 0.01        | 118. | - sulfoxide         | 0.01        | 169. | Spinosad              | 0.01        |
| 18. | Boscalid                  | 0.01        | 68.  | Fenfuram              | 0.01        | 119. | Methomyl            | 0.01        | 170. | Spirodiclofen         | 0.01        |
| 19. | Bromuconazole             | 0.01        | 69.  | Fenhexamid            | 0.01        | 120. | Methoprotiryne      | 0.01        | 171. | Spirotetramat         | 0.01        |
| 20. | Cadusafos                 | 0.01        | 70.  | Fenobucarb            | 0.01        | 121. | Methoxyfenozide     | 0.01        | 172. | - Enol                | 0.01        |
| 21. | Carbaryl                  | 0.01        | 71.  | Fenoxaprop-P-ethyl    | 0.01        | 122. | Metholachlor-S      | 0.01        | 173. | - Ketohydroxy         | 0.01        |
| 22. | Carbendazim               | 0.01        | 72.  | Fenpropidin           | 0.01        | 123. | Metobromuron        | 0.01        | 174. | - Enol-glucoside      | 0.01        |
| 23. | Carbetamid                | 0.01        | 73.  | Fenpropimorph         | 0.01        | 124. | Metosulam           | 0.01        | 175. | - Monohydroxy         | 0.01        |
| 24. | Carbofuran                | 0.01        | 74.  | Fenpyroximate         | 0.01        | 125. | Metoxuron           | 0.01        | 176. | Spiroxamine           | 0.01        |
| 25. | Carbofuran. 3-hydroxy     | 0.01        | 75.  | Fensulfothion         | 0.01        | 126. | Metrafenone         | 0.01        | 177. | Sulfometuron methyl   | 0.005       |
| 26. | Carbofuran. 3-keto        | 0.01        | 76.  | - sulfon              | 0.01        | 127. | Metasulfuron methyl | 0.01        | 178. | Sulfosulfuron         | 0.01        |
| 27. | Carfentrazone ethyl       | 0.01        | 77.  | - oxon                | 0.01        | 128. | Monocrotophos       | 0.01        | 179. | Sulfosaxiflor         | 0.01        |
| 28. | Chlorantraniliprole       | 0.01        | 78.  | - oxon-sulfon         | 0.01        | 129. | Monuron             | 0.01        | 180. | Tebuconazole          | 0.01        |
| 29. | Chloridazon               | 0.01        | 79.  | Fenthion              | 0.01        | 130. | Napropamide         | 0.01        | 181. | Tebufenozide          | 0.01        |
| 30. | Chlorotoluron             | 0.01        | 80.  | - sulfoxide           | 0.01        | 131. | Nitenpyram          | 0.01        | 182. | Tebufenpyrad          | 0.01        |
| 31. | Chlorpyrifos              | 0.01        | 81.  | Flonicamid            | 0.01        | 132. | Omethoate           | 0.01        | 183. | Teflubenzuron         | 0.01        |
| 32. | Chlorsulfuron             | 0.01        | 82.  | Florasulam            | 0.01        | 133. | Oxadixyl            | 0.01        | 184. | Terbufos              | 0.01        |
| 33. | Chromafenozide            | 0.01        | 83.  | Flufenacet            | 0.01        | 134. | Oxamyl              | 0.01        | 185. | - sulfon              | 0.01        |
| 34. | Clofentezine              | 0.01        | 84.  | Flufenoxuron          | 0.01        | 135. | Oxycarboxin         | 0.01        | 186. | - sulfoxide           | 0.01        |
| 35. | Clothianidin              | 0.01        | 85.  | Flupicolide           | 0.01        | 136. | Paraoxon methyl     | 0.01        | 187. | Terbutylazine         | 0.01        |
| 36. | Cyantraniliprole          | 0.01        | 86.  | Fluopyram             | 0.01        | 137. | Parathion ethyl     | 0.01        | 188. | Thiabendazole         | 0.01        |
| 37. | Cyazofamid                | 0.01        | 87.  | Flupyradifurone       | 0.01        | 138. | Pencycuron          | 0.01        | 189. | Thiacloprid           | 0.01        |
| 38. | Cyflufenamid              | 0.01        | 88.  | Fluxapyroxad          | 0.01        | 139. | Pendimethalin       | 0.01        | 190. | Thiamethoxam          | 0.01        |
| 39. | Cymiazol                  | 0.01        | 89.  | Fluoxastrobil         | 0.01        | 140. | Penthiopyrad        | 0.01        | 191. | Thifensulfuron methyl | 0.01        |
| 40. | Cymoxanil                 | 0.01        | 90.  | Flurochloridone       | 0.01        | 141. | Pethoxamid          | 0.01        | 192. | Thiodicarb            | 0.01        |
| 41. | Cyproconazole             | 0.01        | 91.  | Flutolanil            | 0.01        | 142. | Phenmedipham        | 0.01        | 193. | Thiometon             | 0.01        |
| 42. | DEET                      | 0.01        | 92.  | Flutriafol            | 0.01        | 143. | Phenthoate          | 0.01        | 194. | Thiophanate methyl    | 0.01        |
| 43. | Demeton S methyl          | 0.01        | 93.  | Formetanate           | 0.01        | 144. | Phosmet             | 0.01        | 195. | Topramezone           | 0.01        |
| 44. | - sulfon                  | 0.01        | 94.  | Fosfiazate            | 0.01        | 145. | Phoxim              | 0.01        | 196. | Tralkoxydim           | 0.01        |
| 45. | - sulfoxide               | 0.01        | 95.  | Fuberidazol           | 0.01        | 146. | Pinoxaden           | 0.01        | 197. | Trichlorfon           | 0.01        |
| 46. | Desmedipham               | 0.01        | 96.  | Hexythiazox           | 0.01        | 147. | Piperonyl butoxide  | 0.01        | 198. | Tridemorph            | 0.01        |
| 47. | Dicofenophos              | 0.01        | 97.  | Imazalil              | 0.01        | 148. | Prochloraz          | 0.01        | 199. | Trifluralin           | 0.01        |
| 48. | Diethofencarb             | 0.01        | 98.  | Imidacloprid          | 0.01        | 149. | - BTS 44595         | 0.01        | 200. | Trisulfuron methyl    | 0.01        |
| 49. | Diflufenuron              | 0.01        | 99.  | Indoxacarb            | 0.01        | 150. | - BTS 44596         | 0.01        | 201. | Triticonazol          | 0.01        |
| 50. | Diflufenican              | 0.01        | 100. | Iodosulfuron methyl   | 0.01        | 151. | Propamocarb         | 0.01        | 202. | Tritosulfuron         | 0.01        |
|     |                           |             | 101. | Ispiconazole          | 0.01        | 152. | Propaquizafop       | 0.01        | 203. | Zoxamide              | 0.01        |





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**Table 3a.** The list of analyzed pesticides and their limits of quantification (LOQ) – LC-MS/MS – fruits & vegs, cereals

| Lp. | Pesticide           | LOQ<br>mg/kg | Lp. | Pesticide            | LOQ<br>mg/kg | Lp. | Pesticide         | LOQ<br>mg/kg |
|-----|---------------------|--------------|-----|----------------------|--------------|-----|-------------------|--------------|
| 1.  | 2,4-D               | 0.01         | 12. | Dicamba              | 0.01         | 23. | Ioxynil           | 0.01         |
| 2.  | 2,4-DB              | 0.01         | 13. | Dichlorprop (2,4-DP) | 0.01         | 24. | MCPA              | 0.01         |
| 3.  | 2,4,5-T             | 0.01         | 14. | Diclofop             | 0.01         | 25. | MCPB              | 0.01         |
| 4.  | 2,3,5-TP (Fenoprop) | 0.01         | 15. | Diffenazopyr         | 0.01         | 26. | Mecoprop (MCP)    | 0.01         |
| 5.  | Acibenzolar acid    | 0.01         | 16. | Fenoxaprop-P         | 0.01         | 27. | Picloram          | 0.01         |
| 6.  | Acifluorfen         | 0.01         | 17. | Fluazifop            | 0.01         | 28. | Quinmerac         | 0.01         |
| 7.  | Aminopyralid        | 0.01         | 18. | Fluroxypyr           | 0.01         | 29. | Quizalofop        | 0.01         |
| 8.  | Bentazone           | 0.01         | 19. | Haloxypyr            | 0.01         | 30. | Triasulfuron      | 0.01         |
| 9.  | Bromacil            | 0.01         | 20. | Imazamox             | 0.01         | 31. | Tribenuron-methyl | 0.01         |
| 10. | Bromoxynil          | 0.01         | 21. | Imazapyr             | 0.01         | 32. | Triclopyr         | 0.01         |
| 11. | Clopyralid          | 0.01         | 22. | Imazethapyr          | 0.01         | 33. | Trinexapac        | 0.01         |

**Table 3b.** The list of analyzed pesticides and their limits of quantification (LOQ) – LC-MS/MS – oily or dry matrices

| Lp. | Pesticide           | LOQ<br>mg/kg | Lp. | Pesticide            | LOQ<br>mg/kg | Lp. | Pesticide         | LOQ<br>mg/kg |
|-----|---------------------|--------------|-----|----------------------|--------------|-----|-------------------|--------------|
| 1.  | 2,4-D               | 0.01         | 11. | Dichlorprop (2,4-DP) | 0.01         | 21. | MCPA              | 0.01         |
| 2.  | 2,4-DB              | 0.01         | 12. | Diclofop             | 0.01         | 22. | MCPB              | 0.01         |
| 3.  | 2,4,5-T             | 0.01         | 13. | Diffenazopyr         | 0.01         | 23. | Mecoprop (MCP)    | 0.01         |
| 4.  | 2,3,5-TP (Fenoprop) | 0.01         | 14. | Fenoxaprop-P         | 0.01         | 24. | Quinmerac         | 0.01         |
| 5.  | Acibenzolar acid    | 0.01         | 15. | Fluazifop            | 0.01         | 25. | Quizalofop        | 0.01         |
| 6.  | Acifluorfen         | 0.01         | 16. | Fluroxypyr           | 0.01         | 26. | Triasulfuron      | 0.01         |
| 7.  | Bentazone           | 0.01         | 17. | Haloxypyr            | 0.01         | 27. | Tribenuron-methyl | 0.01         |
| 8.  | Bromacil            | 0.01         | 18. | Imazamox             | 0.01         | 28. | Triclopyr         | 0.01         |
| 9.  | Bromoxynil          | 0.01         | 19. | Imazethapyr          | 0.01         | 29. | Trinexapac        | 0.01         |
| 10. | Dicamba             | 0.01         | 20. | Ioxynil              | 0.01         |     |                   |              |

**Table 3c.** The list of analyzed pesticides and their limits of quantification (LOQ) – LC/MS-MS – soil

| Lp. | Pesticide            | LOQ<br>mg/kg | Lp. | Pesticide    | LOQ<br>mg/kg | Lp. | Pesticide         | LOQ<br>mg/kg |
|-----|----------------------|--------------|-----|--------------|--------------|-----|-------------------|--------------|
| 1.  | 2,4-D                | 0.01         | 9.  | Dicamba      | 0.01         | 17. | Ioxynil           | 0.01         |
| 2.  | 2,4-DB               | 0.01         | 10. | Diffenazopyr | 0.01         | 18. | MCPA              | 0.01         |
| 3.  | 2,4,5-T              | 0.01         | 11. | Fenoxaprop-P | 0.01         | 19. | MCPB              | 0.01         |
| 4.  | 2,3,5-TP (Fenoprop)  | 0.01         | 12. | Fluazifop    | 0.01         | 20. | Mecoprop (MCP)    | 0.01         |
| 5.  | Bentazone            | 0.01         | 13. | Fluroxypyr   | 0.01         | 21. | Quizalofop        | 0.01         |
| 6.  | Bromacil             | 0.01         | 14. | Haloxypyr    | 0.01         | 22. | Triasulfuron      | 0.01         |
| 7.  | Bromoxynil           | 0.01         | 15. | Imazamox     | 0.01         | 23. | Tribenuron-methyl | 0.01         |
| 8.  | Dichlorprop (2,4-DP) | 0.01         | 16. | Imazethapyr  | 0.01         | 24. | Triclopyr         | 0.01         |
|     |                      |              |     |              |              | 25. | Trinexapac        | 0.01         |



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**Table 4a.** The list of analyzed pesticides and their limits of quantification (LOQ) – LC/MS-MS – fruits and vegs

| Lp. | Nazwa środka ochrony roślin | DGO mg/kg | Lp. | Nazwa środka ochrony roślin | DGO mg/kg | Lp. | Nazwa środka ochrony roślin | DGO mg/kg |
|-----|-----------------------------|-----------|-----|-----------------------------|-----------|-----|-----------------------------|-----------|
| 1.  | TFNA                        | 0,005     | 4.  | Flonicamid                  | 0,005     | 7.  | Fentin                      | 0,0025    |
| 2.  | TFNA-AM                     | 0,005     | 5.  | Dithianon                   | 0,005     | 8.  | Fenbutatin oxide            | 0,005     |
| 3.  | TFNG                        | 0,005     | 6.  | Dodine                      | 0,005     | 9.  | Cyhexatin                   | 0,005     |

**Table 4b.** The list of analyzed pesticides and their limits of quantification (LOQ) – LC/MS-MS – cereals, oily or dry matrices

| Lp. | Nazwa środka ochrony roślin | DGO mg/kg | Lp. | Nazwa środka ochrony roślin | DGO mg/kg | Lp. | Nazwa środka ochrony roślin | DGO mg/kg |
|-----|-----------------------------|-----------|-----|-----------------------------|-----------|-----|-----------------------------|-----------|
| 1.  | TFNA                        | 0,01      | 4.  | Flonicamid                  | 0,005     | 7.  | Fentin                      | 0,0025    |
| 2.  | TFNA-AM                     | 0,01      | 5.  | Dithianon                   | 0,005     | 8.  | Fenbutatin oxide            | 0,005     |
| 3.  | TFNG                        | 0,01      | 6.  | Dodine                      | 0,005     | 9.  | Cyhexatin                   | 0,005     |



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**Table 5. The list of analyzed pesticides and their limits of quantification (LOQ) in soil – GC-MS/MS**

| No. | Pesticide name       | LOQ [mg/kg] | No.  | Pesticide name       | LOQ [mg/kg] | No.  | Pesticide name             | LOQ [mg/kg] | No.  | Pesticide name           | LOQ [mg/kg] |
|-----|----------------------|-------------|------|----------------------|-------------|------|----------------------------|-------------|------|--------------------------|-------------|
| 1.  | Acetachlor           | 0.005       | 65.  | DDM                  | 0.005       | 129. | Flumetralin                | 0.005       | 193. | Phosmet                  | 0.005       |
| 2.  | Acrinathrin          | 0.005       | 66.  | DDT-o,p              | 0.005       | 130. | Fluorodifen                | 0.005       | 194. | Phthalimide              | 0.005       |
| 3.  | Alachlor             | 0.005       | 67.  | DDT-p,p              | 0.005       | 131. | Fluotrimazole              | 0.005       | 195. | Picolinafen              | 0.005       |
| 4.  | Aldrin               | 0.005       | 68.  | Deltamethrin         | 0.005       | 132. | Fluquinconazole            | 0.005       | 196. | Picoxystrobin            | 0.005       |
| 5.  | Allethrin            | 0.005       | 69.  | Demeton-S            | 0.005       | 133. | Flusilazole                | 0.005       | 197. | Piperonyl-butoxide       | 0.005       |
| 6.  | Ametryn              | 0.005       | 70.  | Desmetryn            | 0.005       | 134. | Flutriafol                 | 0.005       | 198. | Piperophos               | 0.005       |
| 7.  | Aminocarb            | 0.005       | 71.  | Dialifos             | 0.005       | 135. | Fluvalinate                | 0.005       | 199. | Pyrimicarb               | 0.005       |
| 8.  | Anthraquinone        | 0.005       | 72.  | Diazinon             | 0.005       | 136. | Folpet                     | 0.005       | 200. | Pyrimicarb-desmethyl     | 0.005       |
| 9.  | Atrazine             | 0.005       | 73.  | Dichlobenil          | 0.005       | 137. | Fonofos                    | 0.005       | 201. | Pyrimiphos-methyl        | 0.005       |
| 10. | Azaconazole          | 0.005       | 74.  | Dichloroaniline      | 0.005       | 138. | Formothion                 | 0.005       | 202. | Procymidone              | 0.005       |
| 11. | Azinphos-methyl      | 0.005       | 75.  | Dichlorobenzophenone | 0.005       | 139. | Furalaxyl                  | 0.005       | 203. | Profenofos               | 0.005       |
| 12. | Beflubutamid         | 0.005       | 76.  | Dichlorvos           | 0.005       | 140. | Furathiocarb               | 0.005       | 204. | Profluralin              | 0.005       |
| 13. | Benalaxyl            | 0.005       | 77.  | Diclobutrazol        | 0.005       | 141. | Halfenprox                 | 0.005       | 205. | Promethryn               | 0.005       |
| 14. | Benfluralin          | 0.005       | 78.  | Dicofol              | 0.005       | 142. | HCH, alpha                 | 0.005       | 206. | Prometon                 | 0.005       |
| 15. | Benfuracarb          | 0.005       | 79.  | Dieldrin             | 0.005       | 143. | HCH, beta                  | 0.005       | 207. | Propachlor               | 0.005       |
| 16. | Bifenazate           | 0.005       | 80.  | Diethofencarb        | 0.005       | 144. | Heptachlor                 | 0.005       | 208. | Propargite               | 0.005       |
| 17. | Bifenox              | 0.005       | 81.  | Difenoconazole       | 0.005       | 145. | Heptachlor epoxide, cis-   | 0.005       | 209. | Propazine                | 0.005       |
| 18. | Bifenthrin           | 0.005       | 82.  | Dimethachlor         | 0.005       | 146. | Heptachlor epoxide, trans- | 0.005       | 210. | Propetamphos             | 0.005       |
| 19. | Biphenyl             | 0.005       | 83.  | Dimethoate           | 0.005       | 147. | Heptenophos                | 0.005       | 211. | Propham                  | 0.005       |
| 20. | Bitertanol           | 0.005       | 84.  | Dimethomorph         | 0.005       | 148. | Hexachlorobenzene          | 0.005       | 212. | Propanilazole            | 0.005       |
| 21. | Boscalid             | 0.005       | 85.  | Dimethylchlorotal    | 0.005       | 149. | Hexaconazole               | 0.005       | 213. | Prothioconazole-desethio | 0.005       |
| 22. | Bromfeninfos         | 0.005       | 86.  | Dimoxystrobin        | 0.005       | 150. | Imazalil                   | 0.005       | 214. | Prothiofos               | 0.005       |
| 23. | Bromocyclen          | 0.005       | 87.  | Diniconazole         | 0.005       | 151. | Iprobenfos                 | 0.005       | 215. | Pyraclostrobin           | 0.005       |
| 24. | Bromophos            | 0.005       | 88.  | Dioxabenfos          | 0.005       | 152. | Iprodione                  | 0.005       | 216. | Pyrazophos               | 0.005       |
| 25. | Bromopropylate       | 0.005       | 89.  | Dioxacarb            | 0.005       | 153. | Isofenfos                  | 0.005       | 217. | Pyridaben                | 0.005       |
| 26. | Bupirimate           | 0.005       | 90.  | Dioxathion           | 0.005       | 154. | Jodofenfos                 | 0.005       | 218. | Pyrimethanil             | 0.005       |
| 27. | Buprofezin           | 0.005       | 91.  | Diphenylamine        | 0.005       | 155. | Kresoxim-methyl            | 0.005       | 219. | Pyrimethanil             | 0.005       |
| 28. | Butachlor            | 0.005       | 92.  | Disulfoton           | 0.005       | 156. | Lindan                     | 0.005       | 220. | Pyriproxyfen             | 0.005       |
| 29. | Butafenacil          | 0.005       | 93.  | Ditalimfos           | 0.005       | 157. | Malaoxon                   | 0.005       | 221. | Pyroquilon               | 0.005       |
| 30. | Butylate             | 0.005       | 94.  | DMST                 | 0.005       | 158. | Malathion                  | 0.005       | 222. | Qinoxifen                | 0.005       |
| 31. | Captan               | 0.005       | 95.  | Dodemorph            | 0.005       | 159. | Mecarbam                   | 0.005       | 223. | Quinalphos               | 0.005       |
| 32. | Carbaryl             | 0.005       | 96.  | Edifenfos            | 0.005       | 160. | Mepanipyrim                | 0.005       | 224. | Quintozene               | 0.005       |
| 33. | Carboxin             | 0.005       | 97.  | Endosulfan, alpha-   | 0.005       | 161. | Mepronil                   | 0.005       | 225. | Resmethrin               | 0.005       |
| 34. | Chinomethionat       | 0.005       | 98.  | Endosulfan, beta-    | 0.005       | 162. | Metaxyl                    | 0.005       | 226. | Sulfotep                 | 0.005       |
| 35. | Chlorbenside         | 0.005       | 99.  | Endosulfansulfate    | 0.005       | 163. | Metazachlor                | 0.005       | 227. | Tebuconazole             | 0.005       |
| 36. | Chlorbufam           | 0.005       | 100. | Endrin               | 0.005       | 164. | Metconazole                | 0.005       | 228. | Tebufenpyrad             | 0.005       |
| 37. | Chlorfenapyr         | 0.005       | 101. | EPN                  | 0.005       | 165. | Methacrifos                | 0.005       | 229. | Tecnazene                | 0.005       |
| 38. | Chlorfenson          | 0.005       | 102. | Epoxiconazole        | 0.005       | 166. | Methidathion               | 0.005       | 230. | Tefluthrin               | 0.005       |
| 39. | Chlorfenvinphos      | 0.005       | 103. | Esfenvalerate        | 0.005       | 167. | Methoxychlor               | 0.005       | 231. | Terbacil                 | 0.005       |
| 40. | Chlormephos          | 0.005       | 104. | Etaconazole          | 0.005       | 168. | Metolachlor                | 0.005       | 232. | Terbufos                 | 0.005       |
| 41. | Chlorobenzilate      | 0.005       | 105. | Ethalfuralin         | 0.005       | 169. | Metribuzin                 | 0.005       | 233. | Terbutryn                | 0.005       |
| 42. | Chloropropylate      | 0.005       | 106. | Ethion               | 0.005       | 170. | Mevinphos                  | 0.005       | 234. | Tetrachlorvinphos        | 0.005       |
| 43. | Chlorpropham         | 0.005       | 107. | Ethofumesate         | 0.005       | 171. | Myclobutanil               | 0.005       | 235. | Tetraconazole            | 0.001       |
| 44. | Chlorpyrifos         | 0.005       | 108. | Ethoprophos          | 0.005       | 172. | Nitralin                   | 0.005       | 236. | Tetradifon               | 0.005       |
| 45. | Chlorpyrifos-methyl  | 0.005       | 109. | Etofenprox           | 0.005       | 173. | Nitrapyrin                 | 0.005       | 237. | Tetrahydrophthalimide    | 0.005       |
| 46. | Chlorthion           | 0.005       | 110. | Etrinfos             | 0.005       | 174. | Nitrofen                   | 0.005       | 238. | Tetramethrin             | 0.005       |
| 47. | Chlorthiophos        | 0.005       | 111. | Fenamiphos           | 0.005       | 175. | Nitrotal-isopropyl         | 0.005       | 239. | Tetrasul                 | 0.005       |
| 48. | Clodinafop-propargyl | 0.005       | 112. | Fenarimol            | 0.005       | 176. | Nuarimol                   | 0.005       | 240. | Tolclofos-methyl         | 0.005       |
| 49. | Clomazone            | 0.005       | 113. | Fenazaquin           | 0.005       | 177. | Oxadixyl                   | 0.005       | 241. | Triadimefon              | 0.005       |
| 50. | Coumaphos            | 0.005       | 114. | Fenbuconazole        | 0.005       | 178. | Oxyfluorfen                | 0.005       | 242. | Triadimenol              | 0.005       |
| 51. | Crimidine            | 0.005       | 115. | Fenchlorphos         | 0.005       | 179. | Paclobutrazol              | 0.005       | 243. | Tri-Allate               | 0.005       |
| 52. | Cyanazine            | 0.005       | 116. | Fenhexamid           | 0.005       | 180. | Parathion                  | 0.005       | 244. | Triazophos               | 0.005       |
| 53. | Cyanoenphos          | 0.005       | 117. | Fenitrothion         | 0.005       | 181. | Parathion-methyl           | 0.005       | 245. | Trioxystrobin            | 0.005       |
| 54. | Cyanophos            | 0.005       | 118. | Fenoxycarb           | 0.005       | 182. | Penconazole                | 0.005       | 246. | Trifluzimol              | 0.005       |
| 55. | Cycloate             | 0.005       | 119. | Fenpropathrin        | 0.005       | 183. | Pencycuron                 | 0.005       | 247. | Trifluralin              | 0.005       |
| 56. | Cyfluthrin           | 0.005       | 120. | Fenpropidin          | 0.005       | 184. | Pendimethalin              | 0.005       | 248. | Vinclozolin              | 0.005       |
| 57. | Cyhalothrin, lambda- | 0.005       | 121. | Fenpropimorph        | 0.005       | 185. | Permethrin                 | 0.005       |      |                          |             |
| 58. | Cypermethrin         | 0.005       | 122. | Fenthion             | 0.005       | 186. | Perthan                    | 0.005       |      |                          |             |
| 59. | Cyproconazole        | 0.005       | 123. | Fenvalerate          | 0.005       | 187. | Phethoate                  | 0.005       |      |                          |             |
| 60. | Cyprodinil           | 0.005       | 124. | Fipronil             | 0.005       | 188. | Phenylphenol               | 0.005       |      |                          |             |
| 61. | DDD-o,p              | 0.005       | 125. | Fipronil-disulfanyl  | 0.005       | 189. | Phorate                    | 0.005       |      |                          |             |
| 62. | DDD-p,p              | 0.005       | 126. | Fluchloralin         | 0.005       | 190. | Phorate-sulfoxide          | 0.005       |      |                          |             |
| 63. | DDE-o,p              | 0.005       | 127. | Flucythrinate        | 0.005       | 191. | Phosalone                  | 0.005       |      |                          |             |
| 64. | DDE-p,p              | 0.005       | 128. | Fludioxonil          | 0.005       | 192. | Phosamidon                 | 0.005       |      |                          |             |



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**Table 6.** The list of analyzed pesticides and their limits of quantification (LOQ) – LC-MS/MS – soil

| No. | Pesticide name         | LOQ [mg/kg] | No.  | Pesticide name        | LOQ [mg/kg] | No.  | Pesticide name     | LOQ [mg/kg] | No.  | Pesticide name         | LOQ [mg/kg] |
|-----|------------------------|-------------|------|-----------------------|-------------|------|--------------------|-------------|------|------------------------|-------------|
| 1.  | Acetamiprid            | 0.01        | 51.  | Diflufenican          | 0.01        | 101. | Isoprothiolane     | 0.01        | 151. | Propoxycarbazone       | 0.01        |
| 2.  | Aclonifen              | 0.01        | 52.  | Dimethenamid          | 0.01        | 102. | Isoproturon        | 0.01        | 152. | Proquinazid            | 0.01        |
| 3.  | Aldicarb               | 0.01        | 53.  | Dimethoate            | 0.01        | 103. | Isopyrazam         | 0.01        | 153. | Prosulfocarb           | 0.01        |
| 4.  | - sulfon               | 0.01        | 54.  | Disulfoton. sulfon    | 0.01        | 104. | Isoxaben           | 0.01        | 154. | Prosulfuron            | 0.01        |
| 5.  | - sulfoxide            | 0.01        | 55.  | Disulfoton. sulfoxide | 0.01        | 105. | Isoxaflutol        | 0.01        | 155. | Pyridaben              | 0.01        |
| 6.  | Ametoctradin           | 0.01        | 56.  | Emamectin B1a         | 0.01        | 106. | Isoxathion         | 0.01        | 156. | Pyridafol              | 0.01        |
| 7.  | Amidosulfuron          | 0.01        | 57.  | Emamectin B1b         | 0.01        | 107. | Lenacil            | 0.01        | 157. | Pyrifenoxy             | 0.01        |
| 8.  | Amisulbrom             | 0.01        | 58.  | Ethiofencarb          | 0.01        | 108. | Linuron            | 0.01        | 158. | Pyriproxyfen           | 0.01        |
| 9.  | Azadirachtin           | 0.01        | 59.  | Famoxadone            | 0.01        | 109. | Malaoxon           | 0.01        | 159. | Pyroquilon             | 0.01        |
| 10. | Azirotrine             | 0.01        | 60.  | Fenamidone            | 0.01        | 110. | Malathion          | 0.01        | 160. | Quinoclamine           | 0.01        |
| 11. | Azoxystrobin           | 0.01        | 61.  | Fenamiphos            | 0.01        | 111. | Mandipropamid      | 0.01        | 161. | Quizalofop ethyl       | 0.01        |
| 12. | Beflubutamid           | 0.01        | 62.  | - sulfon              | 0.01        | 112. | Metaxyl            | 0.01        | 162. | Rimsulfuron            | 0.01        |
| 13. | Bendiocarb             | 0.01        | 63.  | - sulfoxide           | 0.01        | 113. | Metamitron         | 0.01        | 163. | Rotenone               | 0.01        |
| 14. | Benthivacarb isopropyl | 0.01        | 64.  | Fenbuconazole         | 0.01        | 114. | Methamidophos      | 0.01        | 164. | Saflufenacil           | 0.01        |
| 15. | Benzovindifluopyr      | 0.01        | 65.  | Fenfuram              | 0.01        | 115. | Methiocarb         | 0.01        | 165. | Silthiofam             | 0.01        |
| 16. | Bixafen                | 0.01        | 66.  | Fenhexamid            | 0.01        | 116. | - sulfon           | 0.01        | 166. | Spinetoram C42         | 0.01        |
| 17. | Boscalid               | 0.01        | 67.  | Fenobucarb            | 0.01        | 117. | - sulfoxide        | 0.01        | 167. | Spinetoram C43         | 0.01        |
| 18. | Bromacil               | 0.01        | 68.  | Fenoxaprop-P-ethyl    | 0.01        | 118. | Methomyl           | 0.01        | 168. | Spinosad               | 0.01        |
| 19. | Bromuconazole          | 0.01        | 69.  | Fenpropidin           | 0.01        | 119. | Methoprotrene      | 0.01        | 169. | Spirodiclofen          | 0.01        |
| 20. | Cadusafos              | 0.01        | 70.  | Fenpropimorph         | 0.01        | 120. | Methoxyfenozide    | 0.01        | 170. | Spirotetramat          | 0.01        |
| 21. | Carbaryl               | 0.01        | 71.  | Fenpyroximate         | 0.01        | 121. | Metholachlor-S     | 0.01        | 171. | - Enol                 | 0.01        |
| 22. | Carbendazim            | 0.01        | 72.  | Fensulfothion         | 0.01        | 122. | Metobromuron       | 0.01        | 172. | - Ketohydroxy          | 0.01        |
| 23. | Carbetamid             | 0.01        | 73.  | - sulfon              | 0.01        | 123. | Metoxuron          | 0.01        | 173. | - Enol-glucoside       | 0.01        |
| 24. | Carbofuran             | 0.01        | 74.  | - oxon                | 0.01        | 124. | Metrafenone        | 0.01        | 174. | - Monohydroxy          | 0.01        |
| 25. | Carbofuran. 3-hydroxy  | 0.01        | 75.  | - oxon-sulfon         | 0.01        | 125. | Metsulfuron methyl | 0.01        | 175. | Spiroxamine            | 0.01        |
| 26. | Carbofuran. 3-keto     | 0.01        | 76.  | Fenthion              | 0.01        | 126. | Monocrotophos      | 0.01        | 176. | Sulfometuron methyl    | 0.01        |
| 27. | Carfentrazone ethyl    | 0.01        | 77.  | - sulfoxide           | 0.01        | 127. | Monuron            | 0.01        | 177. | Sulfosulfuron          | 0.01        |
| 28. | Chlorantraniliprole    | 0.01        | 78.  | Flonicamid            | 0.01        | 128. | Napropamide        | 0.01        | 178. | Sulfoxaflor            | 0.01        |
| 29. | Chlorotoluron          | 0.01        | 79.  | Florasulam            | 0.01        | 129. | Novaluron          | 0.01        | 179. | Tebuconazole           | 0.01        |
| 30. | Chlorpyrifos           | 0.01        | 80.  | Flufenacet            | 0.01        | 130. | Omethoate          | 0.01        | 180. | Tebufenozide           | 0.01        |
| 31. | Chlorsulfuron          | 0.01        | 81.  | Fluopicolide          | 0.01        | 131. | Oxadixyl           | 0.01        | 181. | Tebufenpyrad           | 0.01        |
| 32. | Chromafenozide         | 0.01        | 82.  | Fluopyram             | 0.01        | 132. | Oxamyl             | 0.01        | 182. | Teflubenzuron          | 0.01        |
| 33. | Clofentezine           | 0.01        | 83.  | Flupyradifurone       | 0.01        | 133. | Oxycarboxin        | 0.01        | 183. | Terbufos               | 0.01        |
| 34. | Clothianidin           | 0.01        | 84.  | Fluxapyroxad          | 0.01        | 134. | Pencycuron         | 0.01        | 184. | - sulfon               | 0.01        |
| 35. | Cyantraniliprole       | 0.01        | 85.  | Fluoxastrobin         | 0.01        | 135. | Pendimethalin      | 0.01        | 185. | - suloxide             | 0.01        |
| 36. | Cyazofamid             | 0.01        | 86.  | Flurochloridone       | 0.01        | 136. | Penthiopyrad       | 0.01        | 186. | Terbutylazine          | 0.01        |
| 37. | Cycloxydim             | 0.01        | 87.  | Fluroxypyr            | 0.01        | 137. | Pethoxamid         | 0.01        | 187. | Thiacloprid            | 0.01        |
| 38. | Cyflufenamid           | 0.01        | 88.  | Flutolanil            | 0.01        | 138. | Phenmedipham       | 0.01        | 188. | Thiamethoxam           | 0.01        |
| 39. | Cyflumetofen           | 0.01        | 89.  | Flutriafol            | 0.01        | 139. | Phenthoate         | 0.01        | 189. | Thienacarbazone methyl | 0.01        |
| 40. | Cymiazol               | 0.01        | 90.  | Formetanate           | 0.01        | 140. | Phosmet            | 0.01        | 190. | Thiodicarb             | 0.01        |
| 41. | Cymoxanil              | 0.01        | 91.  | Fosfiazate            | 0.01        | 141. | Phosmet oxon       | 0.01        | 191. | Thiometon              | 0.01        |
| 42. | Cyproconazole          | 0.01        | 92.  | Fuberidazol           | 0.01        | 142. | Phoxim             | 0.01        | 192. | Thiophanate methyl     | 0.01        |
| 43. | DEET                   | 0.01        | 93.  | Hexaflumuron          | 0.01        | 143. | Pinoxaden          | 0.01        | 193. | Tralkoxydim            | 0.01        |
| 44. | Demeton S methyl       | 0.01        | 94.  | Hexythiazox           | 0.01        | 144. | Piperonyl butoxide | 0.01        | 194. | Trichlorfon            | 0.01        |
| 45. | - sulfon               | 0.01        | 95.  | Imazalil              | 0.01        | 145. | Prochloraz         | 0.01        | 195. | Tricyclazole           | 0.01        |
| 46. | - sulfoxide            | 0.01        | 96.  | Imidacloprid          | 0.01        | 146. | - BTS 44595        | 0.01        | 196. | Triflurumuron          | 0.01        |
| 47. | Desmedipham            | 0.01        | 97.  | Indoxacarb            | 0.01        | 147. | - BTS 44596        | 0.01        | 197. | Trisulfuron methyl     | 0.01        |
| 48. | Dicofenophos           | 0.01        | 98.  | Ipconazole            | 0.01        | 148. | Propamocarb        | 0.01        | 198. | Triticonazol           | 0.01        |
| 49. | Diethofencarb          | 0.01        | 99.  | Iprovalicarb          | 0.01        | 149. | Propaquizafop      | 0.01        | 199. | Tritosulfuron          | 0.01        |
| 50. | Diflubenuron           | 0.01        | 100. | Isoprocarb            | 0.01        | 150. | Propoxur           | 0.01        | 200. | Zoxamide               | 0.01        |





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**Table 7.** The list of analyzed pesticides and their limits of quantification (LOQ - µg/l) – LC-MS/MS – water

| No. | Pesticide name         | LOQ [µg/l] | No. | Pesticide name | LOQ [µg/l] | No. | Pesticide name        | LOQ [µg/l] | No.  | Pesticide name      | LOQ [µg/l] |
|-----|------------------------|------------|-----|----------------|------------|-----|-----------------------|------------|------|---------------------|------------|
| 1.  | Acetamiprid            | 0.05       | 28. | Fenamidone     | 0.05       | 55. | Isoxaben              | 0.05       | 82.  | Phenthoate          | 0.05       |
| 2.  | Ametoctradin           | 0.05       | 29. | Fenamiphos     | 0.05       | 56. | Lenacil               | 0.05       | 83.  | Pinoxaden           | 0.05       |
| 3.  | Amidosulfuron          | 0.05       | 30. | - sulfone      | 0.05       | 57. | Malaoxon              | 0.05       | 84.  | Propoxur            | 0.05       |
| 4.  | Azoxystrobin           | 0.05       | 31. | - sulfoxide    | 0.05       | 58. | Malathion             | 0.05       | 85.  | Proquinazid         | 0.05       |
| 5.  | Bentazone              | 0.05       | 32. | Fenobucarb     | 0.05       | 59. | Mandipropamid         | 0.05       | 86.  | Prosulfocarb        | 0.05       |
| 6.  | Bromacil               | 0.05       | 33. | Fenoxaprop-P   | 0.05       | 60. | MCPA                  | 0.05       | 87.  | Prosulfuron         | 0.05       |
| 7.  | Bromoxynil             | 0.05       | 34. | Fenpropidin    | 0.05       | 61. | MCPB                  | 0.05       | 88.  | Quizalofop ethyl    | 0.05       |
| 8.  | Cadusafos              | 0.05       | 35. | Fenpropimorph  | 0.05       | 62. | Mecoprop              | 0.05       | 89.  | Silthiofam          | 0.05       |
| 9.  | Carbaryl               | 0.05       | 36. | Fensulfotion   | 0.05       | 63. | Metaxyl               | 0.05       | 90.  | Spirotetramat       | 0.05       |
| 10. | Carbendazim            | 0.05       | 37. | - sulfone      | 0.05       | 64. | Methamidophos         | 0.05       | 91.  | Spiroxamine         | 0.05       |
| 11. | Carbofuran             | 0.05       | 38. | - oxon         | 0.05       | 65. | Methiocarb. sulfoxide | 0.05       | 92.  | Sulfometuron methyl | 0.05       |
| 12. | Carbofuran. 3-hydroxy  | 0.05       | 39. | - oxon sulfone | 0.05       | 66. | Metholachlor-S        | 0.05       | 93.  | Sulfosaxflor        | 0.05       |
| 13. | Chloridazon            | 0.05       | 40. | Flazasulfuron  | 0.05       | 67. | Methomyl              | 0.05       | 94.  | Tebufenozide        | 0.05       |
| 14. | Chromafenozide         | 0.05       | 41. | Fluazifop      | 0.05       | 68. | Methoxyfenozide       | 0.05       | 95.  | Terbufos sulfoxide  | 0.05       |
| 15. | Cytraniliprole         | 0.05       | 42. | Flufenacet     | 0.05       | 69. | Metobromuron          | 0.05       | 96.  | Terbutylazine       | 0.05       |
| 16. | 2,4-D                  | 0.05       | 43. | Fluoxastrobin  | 0.05       | 70. | Metosulam             | 0.05       | 97.  | Thiabendazole       | 0.05       |
| 17. | 2,4-DB                 | 0.05       | 44. | Fluopicolide   | 0.05       | 71. | Metoxuron             | 0.05       | 98.  | Tiaproprid          | 0.05       |
| 18. | DEET                   | 0.05       | 45. | Fluoxypyr      | 0.05       | 72. | Metrafenone           | 0.05       | 99.  | Thiodicarb          | 0.05       |
| 19. | Demeton-S methyl       | 0.05       | 46. | Flutolanil     | 0.05       | 73. | Metsulfuron methyl    | 0.05       | 100. | Tralkoxydim         | 0.05       |
| 20. | - sulfone              | 0.05       | 47. | Flutriafol     | 0.05       | 74. | Monocrotophos         | 0.05       | 101. | Zoxamide            | 0.05       |
| 21. | - sulfoxide            | 0.05       | 48. | Foramsulfuron  | 0.05       | 75. | Napropamide           | 0.05       |      |                     |            |
| 22. | Dichlorprop            | 0.05       | 49. | Fuberidazol    | 0.05       | 76. | Nicosulfuron          | 0.05       |      |                     |            |
| 23. | Diethofencarb          | 0.05       | 50. | Haloxypfop     | 0.05       | 77. | Omethoate             | 0.05       |      |                     |            |
| 24. | Dimethenamid           | 0.05       | 51. | Imazalil       | 0.05       | 78. | Oxadixyl              | 0.05       |      |                     |            |
| 25. | Dimethoate             | 0.05       | 52. | Iprovalicarb   | 0.05       | 79. | Oxamyl                | 0.05       |      |                     |            |
| 26. | Ethametsulfuron methyl | 0.05       | 53. | Isoproturon    | 0.05       | 80. | Paraaxon methyl       | 0.05       |      |                     |            |
| 27. | Etrimol                | 0.05       | 54. | Isopyrazam     | 0.05       | 81. | Pencycuron            | 0.05       |      |                     |            |

**Table 8.** The list of analyzed pesticides and their limits of quantification (LOQ - µg/l) – GC-MS/MS – water

| No. | Pesticide name      | LOQ [µg/l] | No. | Pesticide name     | LOQ [µg/l] | No. | Pesticide name      | LOQ [µg/l] | No.  | Pesticide name   | LOQ [µg/l] |
|-----|---------------------|------------|-----|--------------------|------------|-----|---------------------|------------|------|------------------|------------|
| 1.  | Aldrin              | 0.05       | 26. | DDD-o,p            | 0.05       | 51. | Fluchloralin        | 0.05       | 76.  | Pyridaben        | 0.1        |
| 2.  | Beflubutamid        | 0.1        | 27. | DDD-p,p            | 0.05       | 52. | Fludioxonil         | 0.1        | 77.  | Pyrimethanil     | 0.1        |
| 3.  | Benfluralin         | 0.05       | 28. | DDE-o,p            | 0.05       | 53. | Flumetralin         | 0.1        | 78.  | Pyriproxyfen     | 0.05       |
| 4.  | Benfuracarb         | 0.05       | 29. | DDE-p,p            | 0.05       | 54. | Furathiocarb        | 0.1        | 79.  | Qinoxyfen        | 0.05       |
| 5.  | Bifenazate          | 0.1        | 30. | DDM                | 0.05       | 55. | α-HCH               | 0.05       | 80.  | Quinalphos       | 0.1        |
| 6.  | Bifenthrin          | 0.05       | 31. | DDT-o,p            | 0.05       | 56. | Heptachlor          | 0.05       | 81.  | Quintozene       | 0.1        |
| 7.  | Bromfeninfos        | 0.05       | 32. | DDT-p,p            | 0.05       | 57. | - trans epoxide     | 0.1        | 82.  | Profenofos       | 0.1        |
| 8.  | Bromophos ethyl     | 0.05       | 33. | Dialifos           | 0.1        | 58. | - cis epoxide       | 0.1        | 83.  | Profluralin      | 0.1        |
| 9.  | Bromophos methyl    | 0.05       | 34. | Diazinon           | 0.1        | 59. | Hexachlorobenzene   | 0.05       | 84.  | Prometryn        | 0.1        |
| 10. | Bromopropylate      | 0.05       | 35. | Dichlofenthion     | 0.05       | 60. | Iodofenphos         | 0.05       | 85.  | Propargite       | 0.1        |
| 11. | Bupirimate          | 0.05       | 36. | Dieldrin           | 0.05       | 61. | Isofenphos ethyl    | 0.05       | 86.  | Propiconazole    | 0.1        |
| 12. | Buprofezin          | 0.1        | 37. | Difenoconazole     | 0.1        | 62. | LambdaCyhalothrin   | 0.1        | 87.  | Prothiofos       | 0.1        |
| 13. | Butachlor           | 0.1        | 38. | Diphenylamine      | 0.1        | 63. | Lindan              | 0.05       | 88.  | Spiromesifen     | 0.05       |
| 14. | Butylate            | 0.05       | 39. | α-Endosulfan       | 0.1        | 64. | Methoxychlor        | 0.05       | 89.  | Sulfotep         | 0.05       |
| 15. | Chlordane           | 0.05       | 40. | β-Endosulfan       | 0.1        | 65. | Nitrothal isopropyl | 0.1        | 90.  | Tebuconazole     | 0.05       |
| 16. | Chlorfenapyr        | 0.1        | 41. | Endosulfan, sulph. | 0.05       | 66. | Pentachloroaniline  | 0.05       | 91.  | Tebuconazole     | 0.1        |
| 17. | Chloropropylate     | 0.05       | 42. | Ethalfuralin       | 0.1        | 67. | Permethrin          | 0.1        | 92.  | Tecnazene        | 0.05       |
| 18. | Chlorpyrifos        | 0.05       | 43. | Ethion             | 0.1        | 68. | Permethrin          | 0.05       | 93.  | Tebuconazole     | 0.05       |
| 19. | Chlorpyrifos-Methyl | 0.05       | 44. | Etofenprox         | 0.05       | 69. | Phethoate           | 0.1        | 94.  | Tetradifon       | 0.1        |
| 20. | Chlorthiophos       | 0.05       | 45. | Etrifos            | 0.1        | 70. | Phosalone           | 0.1        | 95.  | Tetramethrin     | 0.1        |
| 21. | Cyanofenfos         | 0.05       | 46. | Fenazaquin         | 0.05       | 71. | Picolinafen         | 0.05       | 96.  | Tetrasul         | 0.05       |
| 22. | Cycloate            | 0.05       | 47. | Fenchlorphos       | 0.05       | 72. | Picoxystrobin       | 0.05       | 97.  | Tolclofos methyl | 0.05       |
| 23. | Cypermethrin        | 0.1        | 48. | Fenpropathrin      | 0.1        | 73. | Piperonyl butoxide  | 0.05       | 98.  | Tri-Allate       | 0.05       |
| 24. | Cyprodinil          | 0.05       | 49. | Fenthion           | 0.05       | 74. | Piperophos          | 0.05       | 99.  | Trifloxystrobin  | 0.05       |
| 25. | DCPA                | 0.05       | 50. | Fenvalerate        | 0.1        | 75. | Pirimiphos-Methyl   | 0.05       | 100. | Trifluralin      | 0.05       |

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