

<b>SP LABORATORIJA AD BEČEJ</b>  <b>Accreditation number: 01-018</b>	<b>LIST OF ACCREDITED ACTIVITIES (METHODS, PROCEDURES) IN THE FLEXIBLE AREA - DETERMINATION OF MYCOTOXINS AND PLANT TOXINS</b>	<b>LFO 003</b>
		Edition 12 from 15.5.2026.

Type of test and/or measured characteristic	Test object material / product	Measurement range	Technique	Method	Date of the first application in flexible scope of accreditation for the given characteristic	Validation/ Verification report	Last updated
<b>MYCOTOXINS</b>							
3-Acetyl-Deoxynivalenol (3-Ac-DON)	Cereals and their products	min 50µg/kg	LC-MS/MS	EURL-MP-method_001	15.4.2021	29/2021/ISI	15.4.2021
15-Acetyl-Deoxynivalenol (15-Ac-DON)	Cereals and their products	min 50µg/kg	LC-MS/MS	EURL-MP-method_001	15.4.2021	29/2021/ISI	15.4.2021
Aflatoxin B1 (AFB1)	Food, Animal feed	min 0,3µg/kg	HPLC-FLD	VM/MET 913	21.06.2018	17a/2017/ISI	29.5.2020
	Food for children (raw materials and products)	min 0,1µg/kg					
	Cereals and oilseeds and their products	min 0,3µg/kg	LC-MS/MS				
Aflatoxin B2 (AFB2)	Food, Animal feed	min 0,3µg/kg	HPLC-FLD	VM/MET 913	21.06.2018	17a/2017/ISI	29.5.2020
	Food for children (raw materials and products)	min 0,1µg/kg					
	Cereals and oilseeds and their products	min 0,3µg/kg	LC-MS/MS				
Aflatoxin G1 (AFG1)	Food, Animal feed	min 0,3µg/kg	HPLC-FLD	VM/MET 913	21.06.2018	17a/2017/ISI	29.5.2020
	Food for children (raw materials and products)	min 0,1µg/kg					
	Cereals and oilseeds and their products	min 0,3µg/kg	LC-MS/MS				
Aflatoxin G2 (AFG2)	Food, Animal feed	min 0,3µg/kg	HPLC-FLD	VM/MET 913	21.06.2018	17a/2017/ISI	29.5.2020
	Food for children (raw materials and products)	min 0,1µg/kg					
	Cereals and oilseeds and their products	min 0,3µg/kg	LC-MS/MS				

Prepared by: E. Ivan

Approved by: A. Bauer

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Aflatoxin M1 (AFM1)	Milk and milk powder; Milk products	min 0,01µg/kg	HPLC-FLD	SRPS EN ISO 14501 VM/MET 913	21.06.2018	18/2017/ISI	21.6.2018
Deoxynivalenol (DON) <sup>4)</sup>	Food, Animal feed	min 60µg/kg	LC-MS/MS	VM/MET 913	21.06.2018	17f/2017/ISI	15.5.2026
Fumonisin B1 (FB1) <sup>4)</sup>	Food, Animal feed	min 90µg/kg	LC-MS/MS	VM/MET 913	21.06.2018	17f/2017/ISI	15.5.2026
Fumonisin B2 (FB2) <sup>4)</sup>	Food, Animal feed	min 30µg/kg	LC-MS/MS	VM/MET 913	21.06.2018	17f/2017/ISI	15.5.2026
HT-2 toxin <sup>4)</sup>	Food, Animal feed	min 10µg/kg	LC-MS/MS	VM/MET 913	03.08.2018	17f/2017/ISI	15.5.2026
Ochratoxin A (OTA)	Food, Animal feed	min 0,8µg/kg	HPLC-FLD	SRPS EN 16007	21.06.2018	101/2015/ISI	29.5.2020
	Food for children (raw materials and products)	min 0,5µg/kg		SRPS EN 14132 VM/MET 913		16/2015/ISI	
Ochratoxin A (OTA)	Cereals and oilseeds and their products, coffee and products	min 0,8µg/kg	LC-MS/MS	VM/MET 913	21.06.2018	17f/2017/ISI	29.5.2020
						17/2020/ISI	
Patulin	Apple juice and apple products; Fruits, vegetables, cereals and products	min 10µg/kg	HPLC-PDA	SRPS ISO 8128-1 VM/MET 913	21.06.2018	19/2017/ISI 11/2018/ISI	5.7.2018
T-2 toxin <sup>4)</sup>	Food, Animal feed	min 10µg/kg	LC-MS/MS	VM/MET 913	03.08.2018.	17f/2017/ISI	15.5.2026
Zearalenone (ZEA) <sup>4)</sup>	Food, Animal feed	min 10µg/kg	LC-MS/MS	VM/MET 913	21.06.2018.	17f/2017/ISI	15.5.2026
<b>Ergot alkaloids:</b>							
Ergocornine	Cereals and their products	min 10µg/kg	LC-MS/MS	EURL-MP-method_003	15.4.2021	25/2021/ISI	15.4.2021
Ergocorninine	Cereals and their products	min 10µg/kg	LC-MS/MS	EURL-MP-method_003	15.4.2021	25/2021/ISI	15.4.2021
Ergocristine	Cereals and their products	min 10µg/kg	LC-MS/MS	EURL-MP-method_003	15.4.2021	25/2021/ISI	15.4.2021
Ergocristinine	Cereals and their products	min 10µg/kg	LC-MS/MS	EURL-MP-method_003	15.4.2021	25/2021/ISI	15.4.2021
Ergocryptine	Cereals and their products	min 10µg/kg	LC-MS/MS	EURL-MP-method_003	15.4.2021	25/2021/ISI	15.4.2021

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Ergocryptinine	Cereals and their products	min 10µg/kg	LC-MS/MS	EURL-MP-method_003	15.4.2021	25/2021/ISI	15.4.2021
Ergometrine	Cereals and their products	min 10µg/kg	LC-MS/MS	EURL-MP-method_003	15.4.2021	25/2021/ISI	15.4.2021
Ergometrinine	Cereals and their products	min 10µg/kg	LC-MS/MS	EURL-MP-method_003	15.4.2021	25/2021/ISI	15.4.2021
Ergosine	Cereals and their products	min 10µg/kg	LC-MS/MS	EURL-MP-method_003	15.4.2021	25/2021/ISI	15.4.2021
Ergosinine	Cereals and their products	min 10µg/kg	LC-MS/MS	EURL-MP-method_003	15.4.2021	25/2021/ISI	15.4.2021
Ergotamine	Cereals and their products	min 10µg/kg	LC-MS/MS	EURL-MP-method_003	15.4.2021	25/2021/ISI	15.4.2021
Ergotaminine	Cereals and their products	min 10µg/kg	LC-MS/MS	EURL-MP-method_003	15.4.2021	25/2021/ISI	15.4.2021
<b>PLANT TOXINS</b>							
<b>Glycoalkaloids:</b>							
α-Solanine <sup>1)</sup>	Potato	min 1mg/kg	LC-MS/MS	EURL-MP-method_014	15.5.2026	5/2025/ISI	15.5.2026
	Potato products	min 0,5mg/kg					
α-Chaconine <sup>1)</sup>	Potato	min 1mg/kg	LC-MS/MS	EURL-MP-method_014	15.5.2026	5/2025/ISI	15.5.2026
	Potato products	min 0,5mg/kg					
Solanidine <sup>1)</sup>	Potato	min 0,2mg/kg	LC-MS/MS	EURL-MP-method_014	15.5.2026	5/2025/ISI	15.5.2026
	Potato products	min 0,1mg/kg					
<b>Cannabinoids:</b>							
Cannabidiol (CBD) <sup>1)</sup>	Hemp seeds and their products	min 0,1mg/kg	LC-MS/MS	EURL-MP-method-009	15.5.2026	2/2024/ISI	15.5.2026
Cannabidiolic acid (CBDA) <sup>1)</sup>	Hemp seeds and their products	min 0,1mg/kg	LC-MS/MS	EURL-MP-method-009	15.5.2026	2/2024/ISI	15.5.2026

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Delta-9-Tetrahydrocannabinol ( $\Delta^9$ -THC) <sup>1)</sup>	Hemp seeds and their products	min 0,1mg/kg	LC-MS/MS	EURL-MP-method-009	15.5.2026	2/2024/ISI	15.5.2026
Delta-9-Tetrahydrocannabinolic acid ( $\Delta^9$ -THCA) <sup>1)</sup>	Hemp seeds and their products	min 0,1mg/kg	LC-MS/MS	EURL-MP-method-009	15.5.2026	2/2024/ISI	15.5.2026
<b>Cyanogenic glycosides:</b>							
Amygdalin <sup>1)</sup>	Linseeds, almonds, apricot kernels, cassava, tapioca and their products	min 1mg HCN eq./kg	LC-MS/MS	EURL-MP-method-010	15.5.2026	1/2024/ISI	15.5.2026
Linamarin <sup>1)</sup>	Linseeds, almonds, apricot kernels, cassava, tapioca and their products	min 1mg HCN eq./kg	LC-MS/MS	EURL-MP-method-010	15.5.2026	1/2024/ISI	15.5.2026
Linustatin <sup>1)</sup>	Linseeds, almonds, apricot kernels, cassava, tapioca and their products	min 1mg HCN eq./kg	LC-MS/MS	EURL-MP-method-010	15.5.2026	1/2024/ISI	15.5.2026
Neolinustatin <sup>1)</sup>	Linseeds, almonds, apricot kernels, cassava, tapioca and their products	min 1mg HCN eq./kg	LC-MS/MS	EURL-MP-method-010	15.5.2026	1/2024/ISI	15.5.2026
Prunasin <sup>1)</sup>	Linseeds, almonds, apricot kernels, cassava, tapioca and their products	min 1mg HCN eq./kg	LC-MS/MS	EURL-MP-method-010	15.5.2026	1/2024/ISI	15.5.2026

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<b>Opium alkaloids:</b>							
Codeine	Poppy	min 0,5mg/kg	LC-MS/MS	EURL-MP-method_007	23.2.2024	43/2022/ISI	22.2.2024
	Bakery products with poppy seeds	min 0,1mg/kg					
Morphine	Poppy	min 0,5mg/kg	LC-MS/MS	EURL-MP-method_007	23.2.2024	43/2022/ISI	22.2.2024
	Bakery products with poppy seeds	min 0,1mg/kg					
<b>Tropane alkaloids:</b>							
Atropine	Cereals, oilseeds, legumes, fruits, vegetables and their products	min 0,5µg/kg	LC-MS/MS	EURL-MP-method_004 VM/MET 913	15.4.2021	27/2021/ISI 28/2021/ISI 33/2021/ISI	27.8.2021
	Tea, herbs and spices	min 1µg/kg				26/2021/ISI	
Scopolamine	Cereals, oilseeds, legumes, fruits, vegetables and their products	min 0,5µg/kg	LC-MS/MS	EURL-MP-method_004 VM/MET 913	15.4.2021	27/2021/ISI 28/2021/ISI 33/2021/ISI	27.8.2021
	Tea, herbs and spices	min 1µg/kg				26/2021/ISI	
<b>Pyrrolizidine alkaloids:</b>							
Echimidine (Em)	Herbal tea, tea, cumin	min 10µg/kg	LC-MS/MS	VM/MET 913	8.9.2025	10/2025/ISI 21/2025/ISI	12.2.2026
Echimidine-N-oxide (EmNO)	Herbal tea, tea, cumin	min 10µg/kg	LC-MS/MS	VM/MET 913	8.9.2025	10/2025/ISI 21/2025/ISI	12.2.2026
Echinatine (En)	Herbal tea, tea, cumin	min 10µg/kg	LC-MS/MS	VM/MET 913	12.2.2026	21/2025/ISI	12.2.2026
Echinatine-N-oxide (EnNO)	Herbal tea, tea, cumin	min 10µg/kg	LC-MS/MS	VM/MET 913	12.2.2026	21/2025/ISI	12.2.2026
Europine (Eu)	Herbal tea, tea, cumin	min 10µg/kg	LC-MS/MS	VM/MET 913	8.9.2025	10/2025/ISI 21/2025/ISI	12.2.2026
Europine-N-oxide (EuNO)	Herbal tea, tea, cumin	min 10µg/kg	LC-MS/MS	VM/MET 913	8.9.2025	10/2025/ISI 21/2025/ISI	12.2.2026
Heliosupine (Hs)	Herbal tea, tea, cumin	min 10µg/kg	LC-MS/MS	VM/MET 913	12.2.2026	21/2025/ISI	12.2.2026

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Heliosupine-N-oxide (HsNO)	Herbal tea, tea, cumin	min 10µg/kg	LC-MS/MS	VM/MET 913	12.2.2026	21/2025/ISI	12.2.2026
Heliotrine (Ht)	Herbal tea, tea, cumin	min 10µg/kg	LC-MS/MS	VM/MET 913	8.9.2025	10/2025/ISI 21/2025/ISI	12.2.2026
Heliotrine-N-oxide (HtNO)	Herbal tea, tea, cumin	min 10µg/kg	LC-MS/MS	VM/MET 913	8.9.2025	10/2025/ISI 21/2025/ISI	12.2.2026
Indicine (Id)	Herbal tea, tea, cumin	min 10µg/kg	LC-MS/MS	VM/MET 913	12.2.2026	21/2025/ISI	12.2.2026
Indicine-N-oxide (IdNO)	Herbal tea, tea, cumin	min 10µg/kg	LC-MS/MS	VM/MET 913	12.2.2026	21/2025/ISI	12.2.2026
Integerrimine (Ir)	Herbal tea, tea, cumin	min 10µg/kg	LC-MS/MS	VM/MET 913	12.2.2026	21/2025/ISI	12.2.2026
Integerrimine-N-oxide (IrNO)	Herbal tea, tea, cumin	min 10µg/kg	LC-MS/MS	VM/MET 913	12.2.2026	21/2025/ISI	12.2.2026
Intermedine (Im)	Herbal tea, tea, cumin	min 10µg/kg	LC-MS/MS	VM/MET 913	8.9.2025	10/2025/ISI 21/2025/ISI	12.2.2026
Intermedine-N-oxide (ImNO)	Herbal tea, tea, cumin	min 10µg/kg	LC-MS/MS	VM/MET 913	8.9.2025	10/2025/ISI 21/2025/ISI	12.2.2026
Lasiocarpine (Lc)	Herbal tea, tea, cumin	min 10µg/kg	LC-MS/MS	VM/MET 913	8.9.2025	10/2025/ISI 21/2025/ISI	12.2.2026
Lasiocarpine-N-oxide (LcNO)	Herbal tea, tea, cumin	min 10µg/kg	LC-MS/MS	VM/MET 913	8.9.2025	10/2025/ISI 21/2025/ISI	12.2.2026
Lycopsamine (Ly)	Herbal tea, tea, cumin	min 10µg/kg	LC-MS/MS	VM/MET 913	8.9.2025	10/2025/ISI 21/2025/ISI	12.2.2026
Lycopsamine-N-oxide (LyNO)	Herbal tea, tea, cumin	min 10µg/kg	LC-MS/MS	VM/MET 913	8.9.2025	10/2025/ISI 21/2025/ISI	12.2.2026
Retrorsine (Rt)	Herbal tea, tea, cumin	min 10µg/kg	LC-MS/MS	VM/MET 913	8.9.2025	10/2025/ISI 21/2025/ISI	12.2.2026
Retrorsine-N-oxide (RtNO)	Herbal tea, tea, cumin	min 10µg/kg	LC-MS/MS	VM/MET 913	8.9.2025	10/2025/ISI 21/2025/ISI	12.2.2026
Rinderine (Rn)	Herbal tea, tea, cumin	min 10µg/kg	LC-MS/MS	VM/MET 913	12.2.2026	21/2025/ISI	12.2.2026
Rinderine-N-oxide (RnNO)	Herbal tea, tea, cumin	min 10µg/kg	LC-MS/MS	VM/MET 913	12.2.2026	21/2025/ISI	12.2.2026
Senecionine (Sn)	Herbal tea, tea, cumin	min 10µg/kg	LC-MS/MS	VM/MET 913	8.9.2025	10/2025/ISI 21/2025/ISI	12.2.2026

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Senecionine-N-oxide (SnNO)	Herbal tea, tea, cumin	min 10µg/kg	LC-MS/MS	VM/MET 913	8.9.2025	10/2025/ISI 21/2025/ISI	12.2.2026
Senecivernine (Sv)	Herbal tea, tea, cumin	min 10µg/kg	LC-MS/MS	VM/MET 913	8.9.2025	10/2025/ISI 21/2025/ISI	12.2.2026
Senecivernine-N-oxide (SvNO)	Herbal tea, tea, cumin	min 10µg/kg	LC-MS/MS	VM/MET 913	8.9.2025	10/2025/ISI 21/2025/ISI	12.2.2026
Seniciphylline (Sp)	Herbal tea, tea, cumin	min 10µg/kg	LC-MS/MS	VM/MET 913	8.9.2025	10/2025/ISI 21/2025/ISI	12.2.2026
Seniciphylline-N-oxide (SpNO)	Herbal tea, tea, cumin	min 10µg/kg	LC-MS/MS	VM/MET 913	8.9.2025	10/2025/ISI 21/2025/ISI	12.2.2026
Senkirkine (Sk)	Herbal tea, tea, cumin	min 10µg/kg	LC-MS/MS	VM/MET 913	8.9.2025	10/2025/ISI 21/2025/ISI	12.2.2026
Spartioidine (St)	Herbal tea, tea, cumin	min 10µg/kg	LC-MS/MS	VM/MET 913	12.2.2026	21/2025/ISI	12.2.2026
Spartioidine-N-oxide (StNO)	Herbal tea, tea, cumin	min 10µg/kg	LC-MS/MS	VM/MET 913	12.2.2026	21/2025/ISI	12.2.2026
Usaramine (Us)	Herbal tea, tea, cumin	min 10µg/kg	LC-MS/MS	VM/MET 913	12.2.2026	21/2025/ISI	12.2.2026
Usaramine-N-oxide (UsNO)	Herbal tea, tea, cumin	min 10µg/kg	LC-MS/MS	VM/MET 913	12.2.2026	21/2025/ISI	12.2.2026

Short description of the changes from the previous edition of the List of accredited activities (methods, procedures) in the flexible area - Determination of mycotoxins and plant toxins residues (marked in gray):

- 1) changes of the measured characteristic
- 2) changes of technique
- 3) changes of method
- 4) technical changes

#### Chronology of change:

**15.5.2026. LFO 003, edition 12:** List of accredited activities (methods, procedures) in the flexible area has been changed for determining of glycoalkaloids ( $\alpha$ -Solanine,  $\alpha$ -Chaconine i Solanidine) in potatoes and potato products (5/2025/ISI, from 15.5.2026.), cannabinoids (Cannabidiol (CBD), Cannabidiolic acid (CBDA), Delta-9-Tetrahydrocannabinol, Delta-9-Tetrahydrocannabinolic acid ( $\Delta^9$ -THCA)) in hemp seeds and their products (2/2024/ISI, from 29.8.2025.) and cyanogenic glycosides (Amygdalin, Linamarin, Linustatin, Neolinustatin, Prunasin) in lin seeds, almond kernels, apricot kernels, cassava, tapioca and their products (1/2024/ISI, from 15.5.2026.). Technical changes.

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**12.2.2026. LFO 003, edition 11:** List of accredited activities (methods, procedures) in the flexible area has been changed for determining of pyrrolizidine alkaloids Echinatine (En), Echinatine-N-oxide (EnNO), Heliosupine (Hs), Heliosupine-N-oxide (HsNO), Indicine (Id), Indicine-N-oxide (IdNO), Integerrimine (Ir), Integerrimine-N-oxide (IrNO), Rinderine (Rn), Rinderine-N-oxide (RnNO), Spartioidine (St), Spartioidine-N-oxide (StNO), Usaramine (Us), Usaramine-N-oxide (UsNO) in herbal teas, tea and cumin and Echimidine (Em), Echimidine-N-oxide (EmNO), Europine (Eu), Europine-N-oxide (EuNO), Heliotrine (Ht), Heliotrine-N-oxide (HtNO), Intermedine (Im), Intermedine-N-oxide (ImNO), Lasiocarpine (Lc), Lasiocarpine-N-oxide (LcNO), Lycopsamine (Ly), Lycopsamine-N-oxide (LyNO), Retrorsine (Rt), Retrorsine-N-oxide (RtNO), Senecionine (Sn), Senecionine-N-oxide (SnNO), Senecivernine (Sv), Senecivernine-N-oxide (SvNO), Seniciphylline (Sp), Seniciphylline-N-oxide (SpNO) and Senkirkine (Sk) in tea and cumin (21/2025/ISI, from 11.2.2026.).

**8.9.2025. LFO 003, edition 10:** List of accredited activities (methods, procedures) in the flexible area has been changed for determining of pyrrolizidine alkaloids in herbal teas (10/2025/ISI, from 29.8.2025.).

**22.2.2024. LFO 003, edition 9:** List of accredited activities (methods, procedures) in the flexible area has been changed for determining plant toxins, opium alkaloids, Morphine and Codeine in poppy seeds and bakery products with poppy seeds (43/2022/ISI, from 31.3.2023.).

**13.04.2022 LFO 003, edition 8:** Technical change of the name of the List of accredited activities (methods, procedures) in the flexible area - Determination of mycotoxins and plant toxins.

**27.8.2021. LFO 003, edition 7:** List of accredited activities (methods, procedures) in the flexible area has been changed for determining plant toxins, tropan alkaloids (Atropine i Scopolamine) in tea, herbs and spices (26/2021/ISI, from 14.05.2021.).

**21.4.2021. LFO 003, edition 6:** List of accredited activities (methods, procedures) in the flexible area has been changed for determining plant toxins, tropan alkaloids (Atropine i Scopolamine), in fruits, vegetables and their products (33/2021/ISI, from 21.4.2021.).

**15.4.2021. LFO 003, edition 5:** List of accredited activities (methods, procedures) in the flexible area has been changed for determining: 3-Ac-DON i 15-Ac-DON in cereals and their products (29/2021/ISI, from 17.3.2021.), ergot alkaloids in cereals and their products (25/2021/ISI, from 17.3.2021.), plant toxins, tropan alkaloids (Atripine i Scopolamine) in cereals and their products (27/2021/ISI, from 17.3.2021.) and oilseeds and legumes and their products (28/2021/ISI, from 14.4.2021.).

**02.11.2020 LFO 003, edition 4:** The name List of activities conducted under the flexible scope of accreditation has been changed to the List of accredited activities (methods, procedures) in the flexible area

**29.5.2020. LFO 003, edition 3:** List of activities conducted under the flexible scope of accreditation has been changed in the part of the quantification limit (Aflatoxin B1, B2, G1, G2 i Ochratoxin A) (17/2020/ISI from 29.5.2020.); a technical change was made in the part of the subject of examination (Zearalenone, Deoxynivalenol, Fumonisine B1 i B2).

**23.01.2019. LFO 003, edition 2:** Technical errors were fixed.

**18.10.2018. LFO 003, edition 1:** List of activities conducted under the flexible scope of accreditation LFO 001 is divided into 4 parts, of which LFO 003 relates to the method of determining mycotoxins.

**03.08.2018.** List of activities conducted under the flexible scope of accreditation has been changed for determining T-2 i HT-2 toxin in food and animal feed and changed in the part of technique of aflatoxin B1, B2, G1, G2, ochratoxin A, zearalenone, fumonisine B1, B2 and deoxynivalenol (DON) (LC/MS/MS).

**05.07.2018.** List of activities conducted under the flexible scope of accreditation has been changed for determining patulins in fruits, vegetables, cereals and their products.

**Person responsible for the control of method “Determination of mycotoxins and plant toxins”:** MS Biljana Marošanić, spec. in tox.chem.

This list refers to the flexible part of the scope of accreditation, which is available on the website [www.ats.rs](http://www.ats.rs)