

SP LABORATORIJA AD BEČEJ Accreditation number: 01-018	LIST OF ACTIVITIES CONDUCTED UNDER THE FLEXIBLE SCOPE OF ACCREDITATION FOR METHOD OF EXAMINATION - DETERMINATION OF METALS AND METALLOIDS	LFO 00 4
		Edition 2 from 12.01.2019.

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
Aluminum (Al)	Fruits	min 0,01mg/kg	ICP/MS	VM/MET 865	21.06.2018.	13/2018/ISI	03.08.2018.
	Water	min 0,001mg/l	ICP/MS	EPA 6020A		5/2018/ISI	21.06.2018.
Antimon (Sb)	Animal feed	min 0,1mg/kg	ICP/MS	VM/MET 865	21.06.2018.	16/2017/ISI	21.06.2018.
	Water	min 0,001mg/l	ICP/MS	EPA 6020A		5/2018/ISI	21.06.2018.
Arsen (As)	Food	min 0,01mg/kg (min 0,001mg/kg)*	ICP/MS	SRPS EN 15763	21.06.2018.	15/2017/ISI	21.06.2018.
	Animal feed	min 0,1mg/kg	ICP/MS	VM MET 865		16/2017/ISI	21.06.2018.
	Water	min 0,001mg/l	ICP/MS	EPA 6020A		5/2018/ISI	21.06.2018.
Copper (Cu)	Food	min 0,01mg/kg	ICP/MS	VM MET 865	21.06.2018.	15/2017/ISI	21.06.2018.
	Animal feed	min 1mg/kg	ICP/MS	VM MET 865		16/2017/ISI	21.06.2018.
	Water	min 0,001mg/l	ICP/MS	EPA 6020A		5/2018/ISI	21.06.2018.
Barium (Ba)	Food	min 0,01mg/kg	ICP/MS	VM/MET 865	21.06.2018.	8/2018/ISI	06.07.2018.
	Water	min 0,001mg/l	ICP/MS	EPA 6020A		5/2018/ISI	21.06.2018.
Berillium (Be)	Water	min 0,001mg/l	ICP/MS	EPA 6020A	21.06.2018.	5/2018/ISI	21.06.2018.
Boron (B)	Water	min 0,001mg/l	ICP/MS	VM/MET 865	21.06.2018.	5/2018/ISI	21.06.2018.
Zinc (Zn)	Food	min 0,01mg/kg	ICP/MS	VM MET 865	21.06.2018.	15/2017/ISI	21.06.2018.
	Animal feed	min 10mg/kg	ICP/MS	VM MET 865		16/2017/ISI	21.06.2018.
	Water	min 0,001mg/l	ICP/MS	EPA 6020A		5/2018/ISI	21.06.2018.

Prepared by: E. Ivan

Approved by: A. Bauer

SP LABORATORIJA AD BEČEJ Accreditation number: 01-018	LIST OF ACTIVITIES CONDUCTED UNDER THE FLEXIBLE SCOPE OF ACCREDITATION FOR METHOD OF EXAMINATION - DETERMINATION OF METALS AND METALLOIDS	LFO 004
		Edition 2 from 12.01.2019.

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
Iron (Fe)	Food	min 0,01mg/kg	ICP/MS	VM MET 865	21.06.2018.	15/2017/ISI	21.06.2018.
	Animal feed	min 10mg/kg	ICP/MS	VM MET 865		16/2017/ISI	21.06.2018.
	Water	min 0,001mg/l	ICP/MS	EPA 6020A		5/2018/ISI	21.06.2018.
Chromium (Cr)	Food	min 0,01mg/kg	ICP/MS	VM/MET 865	21.06.2018.	15/2017/ISI	21.06.2018.
	Water	min 0,001mg/l	ICP/MS	EPA 6020A		5/2018/ISI	21.06.2018.
Cadmium (Cd)	Food	min 0,01mg/kg (min 0,001mg/kg)*	ICP/MS	SRPS EN 15763	21.06.2018.	15/2017/ISI	21.06.2018.
	Animal feed	min 0,1mg/kg	ICP/MS	VM MET 865		16/2017/ISI	21.06.2018.
	Water	min 0,001mg/l	ICP/MS	EPA 6020A		5/2018/ISI	21.06.2018.
Tin (Sn)	Food	min 0,05mg/kg	ICP/MS	SRPS EN 15765	21.06.2018.	15/2016/ISI	21.06.2018.
	Water	min 0,001mg/l	ICP/MS	EPA 6020A		5/2018/ISI	21.06.2018.
Calcium (Ca)	Food, Animal feed	min 10mg/kg	ICP/MS	VM MET 865	21.06.2018.	16/2016/ISI 16/2017/ISI	21.06.2018.
Potassium (K)	Food, Animal feed	min 10mg/kg	ICP/MS	VM MET 865	21.06.2018.	16/2016/ISI 16/2017/ISI	21.06.2018.
Cobalt (Co) ⁴⁾	Food	min 0,01mg/kg	ICP/MS	VM/MET 865	21.06.2018.	8/2018/ISI	06.07.2018.
	Animal feed	min 0,02mg/kg	ICP/MS	VM MET 865		16/2017/ISI	21.06.2018.
	Water	min 0,001mg/l	ICP/MS	EPA 6020A		5/2018/ISI	21.06.2018.

SP LABORATORIJA AD BEČEJ Accreditation number: 01-018	LIST OF ACTIVITIES CONDUCTED UNDER THE FLEXIBLE SCOPE OF ACCREDITATION FOR METHOD OF EXAMINATION - DETERMINATION OF METALS AND METALLOIDS	LFO 004
		Edition 2 from 12.01.2019.

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
Magnesium (Mg)	Food, Animal feed	min 10mg/kg	ICP/MS	VM MET 865	21.06.2018.	16/2016/ISI 16/2017/ISI	21.06.2018.
Manganese (Mn)	Food	min 0,01mg/kg	ICP/MS	VM MET 865	21.06.2018.	15/2017/ISI	21.06.2018.
	Animal feed	min 10mg/kg	ICP/MS	VM MET 865		16/2017/ISI	21.06.2018.
	Water	min 0,001mg/l	ICP/MS	EPA 6020A		5/2018/ISI	21.06.2018.
Molybdenum (Mo) ⁴⁾	Food	min 0,01mg/kg	ICP/MS	VM/MET 865	21.06.2018.	8/2018/ISI	06.07.2018.
	Animal feed	min 0,1mg/kg	ICP/MS	VM MET 865		16/2017/ISI	21.06.2018.
	Water	min 0,001mg/l	ICP/MS	EPA 6020A		5/2018/ISI	21.06.2018.
Sodium (Na)	Food, Animal feed	min 10mg/kg	ICP/MS	VM MET 865	21.06.2018.	16/2016/ISI 16/2017/ISI	21.06.2018.
Nickel (Ni)	Food	min 0,01mg/kg	ICP/MS	VM/MET 865	21.06.2018.	15/2017/ISI	21.06.2018.
	Water	min 0,001mg/l	ICP/MS	EPA 6020A		5/2018/ISI	13.08.2018.
Lead (Pb)	Food	min 0,01mg/kg (min 0,001mg/kg)*	ICP/MS	SRPS EN 15763	21.06.2018.	15/2017/ISI	21.06.2018.
	Animal feed	min 0,1mg/kg	ICP/MS	VM MET 865		16/2017/ISI	21.06.2018.
	Water	min 0,001mg/l	ICP/MS	EPA 6020A		5/2018/ISI	21.06.2018.
Selenium (Se)	Food	min 0,01mg/kg	ICP/MS	VM MET 865	21.06.2018.	15/2017/ISI	21.06.2018.
	Animal feed	min 0,02mg/kg	ICP/MS	VM MET 865		16/2017/ISI	21.06.2018.
	Water	min 0,001mg/l	ICP/MS	EPA 6020A		5/2018/ISI	21.06.2018.

SP LABORATORIJA AD BEČEJ Accreditation number: 01-018	LIST OF ACTIVITIES CONDUCTED UNDER THE FLEXIBLE SCOPE OF ACCREDITATION FOR METHOD OF EXAMINATION - DETERMINATION OF METALS AND METALLOIDS	LFO 004
		Edition 2 from 12.01.2019.

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
Mercury (Hg)	Food	min 0,01mg/kg (min 0,001mg/kg)*	ICP/MS	SRPS EN 15763	21.06.2018.	15/2017/ISI	21.06.2018.
	Animal feed	min 0,02mg/kg	ICP/MS	VM MET 865		16/2017/ISI	21.06.2018.
	Water	min 0,001mg/l	ICP/MS	EPA 6020A		5/2018/ISI	21.06.2018.

* – Dietary product (raw materials and products)

Short description of the changes from the previous edition of the List of activities conducted under the flexible scope of accreditation - Determination of metals and metalloids (marked in gray):

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

Chronology of change:

12.01.2019. LFO 004, edition 2: A technical change was made.

18.10.2018. LFO 004, edition 1: List of activities conducted under the flexible scope of accreditation LFO 001 is divided into 4 parts, of which LFO 004 relates to the method of determining metals i metalloids.

13.08.2018. LFO 001, izdanje 31: List of activities conducted under the flexible scope of accreditation has been extended by determining Nickel (Ni) in water (5/2018/ISI).

03.08.2018. List of activities conducted under the flexible scope of accreditation has been extended by determining aluminium (Al) in fruit (13/2018/ISI).

06.07.2018. List of activities conducted under the flexible scope of accreditation has been extended by determining cobalt (Co), molybdenum (Mo) and barium (Ba) in food (8/2018/ISI).

Odgovorna osoba za upravljanje metodom “Determination of metals and metalloids”: dipl.ing Biljana Marošanić, spec.toks.hem.
This list refers to the flexible part of the scope of accreditation, which is available on the website www.ats.rs