SCOPE OF ACCREDITATION

Accredited conformity assessment body

SP Laboratorija AD Bečej
Industrijska 3, Bečej

Standard:

SRPS ISO/IEC 17025:2017

(ISO/IEC 17025:2017)

Short description of the scope

- *chemical and physical testing of food and animal feed;*
- *chemical and physical testing of cosmetic and chemical products (personal hygiene products, cosmetics, and household hygiene products);*
- *chemical and physical testing of fertilisers;*
- *chemical and physical testing of water (drinking water, superficial water, salty water, waste water, rain water, natural and treated water, groundwater, raw water);*
- *sensory testing of food, animal feed, drinking water, kitchenware, utensils and packaging material, cosmetic and chemical products (personal hygiene products, cosmetics);*
- *biological (genetic) and biochemical testing of food and animal feed;*
- *microbiological testing of food, animal feed, swabs, water, cosmetic and chemical products (personal hygiene products, cosmetics), pharmaceutical preparations;*
- *sampling of food, animal feed, drinking water, items of general use, swabs.*

Detailed description of the scope

Flexible scope of accreditation

Location of testings: laboratory (Bečej, Industrijska 3) **Biological testing: food and animal feed**				
O.N.	**Test object material / product**	**Type of test and/or measured characteristic (testing technique)**	**Measurement range/limit of detection/limit of quantification (if applicable)**	**Reference document**
1.	**Plant materials, Technological processed products with ingredients of plant origin**	Testing of genetic modification - Extraction of DNA - Qualitative and quantitative PCR		JRC-Compendium of reference methods for GMO analysis

Flexibility refers to the application of new editions of standards / own methods without indicating the year of issue. Flexibility is allowed within the "measured characteristics " and the "reference document". The list of accredited activities (methods, procedures) in the flexible area is available on the website of the accredited laboratory www.splaboratorija.rs

Location of testings: laboratory (Bečej, Industrijska 3) **Chemical (analytical) testing: food and animal feed**				
O.N.	**Test object material / product**	**Type of test and/or measured characteristic (testing technique)**	**Measurement range/limit of detection/limit of quantification (if applicable)**	**Reference document**
2.	**Food and animal feed**	Determination of pesticide residues (gas and liquid chromatography with different detectors)		SRPS EN 15662 SRPS EN 12396-2 QuPPe-Method VM/MET 886 VM/ MET 887 VM/MET 1118
		Determination of mycotoxins and plant toxins (liquid chromatography with different detectors)		SRPS EN 15891 SRPS EN 15791 SRPS EN 16187 SRPS EN 16006 SRPS EN 16007 SRPS EN 14132 SRPS EN 15850 SRPS EN 15792 SRPS EN ISO 14501 SRPS ISO 8128-1 SRPS EN 16877 EURL-MP-method_001 EURL-MP-method_003 EURL-MP-method_004 EURL-MP-method_007 VM/MET 913

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Flexible scope of accreditation *(continuation)*

Location of testings: laboratory (Bečej, Industrijska 3) **Chemical (analytical) testing: food and animal feed**				
O.N.	**Test object material / product**	**Type of test and/or measured characteristic (testing technique)**	**Measurement range/limit of detection/limit of quantification (if applicable)**	**Reference document**
3.	**Food** **Animal feed** **Water**	Determination of metals and metalloids (ICP/MS)		SRPS EN 15763 SRPS EN 15765 SRPS EN 17264 SRPS EN 16802 EPA 6020A VM/MET 865

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Fixed scope of accreditation

Location of testings: laboratory (Bečej, Industrijska 3)
Physical, chemical (analytical), biochemical and sensory analyses of food and animal feed

O.N.	Test object material / product	Type of test and/or measured characteristic (testing technique)	Measurement range/limit of detection/limit of quantification (if applicable)	Reference document
1.	**Food and Animal feed** Food	Determination of vitamin D (HPLC-PDA)	LOQ 0,75 µg/100g	VM/MET 926
	Animal feed		LOQ 8000 IU/kg	
	Food	Determination of vitamin B1 (HPLC with fluorescence detector)	LOQ 0,1 mg/100g	SRPS EN 14122:2014
	Animal feed		LOQ 1 mg/kg	VM/MET 927
	Food	Determination of vitamin B2 (HPLC with fluorescence detector)	LOQ 0,1 mg/100g	SRPS EN 14152:2014
	Animal feed		LOQ 1 mg/kg	VM/MET 928
	Food	Determination of vitamin B6 (HPLC with fluorescence detector)	LOQ 0,1 mg/100g	SRPS EN 14164:2014
	Animal feed		LOQ 1 mg/kg	VM/MET 929
	Food	Determination of vitamin C (HPLC-PDA)	LOQ 0.25 mg/100g	VM/MET 930
	Animal feed		LOQ 2,5 mg/kg	
	Food	Determination of vitamin A (HPLC-PDA)	LOQ 0,1 mg/100g	SRPS EN 12823-1:2014
	Animal feed		LOQ 400 IU/kg	SRPS EN ISO 14565:2011
	Food	Determination of vitamin E (HPLC-PDA)	LOQ 0,1 mg/100g	SRPS EN 12822:2014
	Animal feed		LOQ 0,1 mg/kg	SRPS EN ISO 6867:2008
	Food (thermally processed products of potatoes, cereals, coffee products and baby food)	Determination of acrylamide (LC-MS/MS)	LOQ 15 µg/kg	SRPS EN 16618:2015
	Animal feed (thermally processed)			VM/MET 1211

Location of testings: laboratory (Bečej, Industrijska 3)
Physical, chemical (analytical), biochemical and sensory analyses of food and animal feed

O.N.	Test object material / product	Type of test and/or measured characteristic (testing technique)	Measurement range/limit of detection/limit of quantification (if applicable)	Reference document
1.	**Food and Animal feed** *(continuation)* Food of animal origin and feed	Determination of sulfonamides and antibiotics (LC/MS/MS)[30)] *List of sulfonamides and antibiotics is in attachment*	LOQ 0,01 mg/kg	VM/MET 936
	Food Animal feed	Determination of amino acid composition (IC with electrochemical detector) [31)] *List of amino acids is in attachment*	LOQ 0,01%	VM/MET 937
		Determination of polycyclic aromatic hydrocarbons PAH (GC/MS/MS) [29)] *List of PAHs is in attachment*	LOQ 1 µg/kg Dry spices (herbs) and medicinal herbs: LOQ 5 µg/kg Cereals and leguminoses**: LOQ 0,5 µg/kg	VM/MET 1116
		Determination of granulation (gravimetry)	0%-100%	SRPS ISO 2591-1:1992
		Determination of water content (volumetry by Karl Fischer method)	LOQ 0,01%	Handbook [23)] page. 8 - 46
		Determination of total fat content by microwave extraction (gravimetry)	LOQ 0,1%	VM/MET 1318
	Food	Determination of crude fiber – cellulose (gravimetry)	LOQ 0,3%	VM/MET 1350
	Animal feed			AOCS Ba 6a-05: 2005
	Fruits, vegetables, cereals, leguminoses, medicinal herbs and tea	Determination of Perchlorate (LC/MS/MS)	LOQ 0,01mg/kg medicinal herbs and tea: LOQ 0,5mg/kg	QuPPe-Method[39)]
	Grains	Determination of bulk density - mass per hectolitre (gravimetry)	35kg/hl - 90 kg/hl	SRPS EN ISO 7971-3:2019
		Determination of impurities content in wheat, durum wheat, rye, triticale and feed barley (gravimetry)	LOQ 0,01%	SRPS EN 15587:2019
	Soy and soy products	Determination of urease activity (potenciometry)	LOQ 0,01	AOCS Ba 9-58:2017
			LOQ 0,01 mgN/g,min	SRPS ISO 5506:2019

Location of testings: laboratory (Bečej, Industrijska 3)
Physical, chemical (analytical), biochemical and sensory analyses of food and animal feed

O.N.	Test object material / product	Type of test and/or measured characteristic (testing technique)	Measurement range/limit of detection/limit of quantification (if applicable)	Reference document
1.	**Food and Animal feed** Soy and soy products *(continuation)*	Determination of trypsin inhibitor activity of soya products (spectrophotometry)	LOQ 0,5mg/g	SRPS EN ISO 14902:2009
		Determination of protein dispersibility index (PDI) (volumetry)	LOQ 1%	AOCS Ba 10b-09:2017
	Maize	Determination of moisture content (on milled grains and on whole grains) in maize (gravimetry)	LOQ 0,01%	SRPS EN ISO 6540:2021
	Grains and milling products	Determination of moisture content (gravimetry)	LOQ 0,01%	SRPS EN ISO 712-1:2024
	Oilseed residues and soy products	Determination of free residual hexane (GC/FID/HSS)	LOQ 10 mg/kg	SRPS ISO 9289:2002
	Fatty food	Determination of polychlorinated biphenyls (PCB) (GC/MS/MS) [28)] *List of PCB is in attachment*	LOQ 0,003 mg/kg	VM/MET 1156
	Food	Determination of sugar content (glucose, fructose, sucrose, lactose and maltose) (IC with electrochemical detector)	LOQ 0,01%	VM/MET 938
		Determination of water activity - a_w (measurement of electrolytic resistance)	0,03-1	NMKL 168:2001
		Determination of crude fibre (gravimetry)	LOQ 1%	SRPS ISO 5498:1996
		Determination of crude fat (gravimetry)	LOQ 0,1%	NMKL 160:1998
		Determination of crude protein content by Kjeldahl method (volumetry)	LOQ 0,1 %	SRPS ISO 1871:2013
		Determination of dietary fibre content that do not include the lower molecular weight fraction (enzymatic-gravimetry)	LOQ 0,5 %	AOAC 985.29:2003
		Determination of insoluble and soluble dietary fibre content (that do not include the lower molecular weight fraction) (enzymatic-gravimetry)	LOQ 0,5 %	AOAC 991.43:2000

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Physical, chemical (analytical), biochemical and sensory analyses of food and animal feed

O.N.	Test object material / product	Type of test and/or measured characteristic (testing technique)	Measurement range/limit of detection/limit of quantification (if applicable)	Reference document
2.	**Food** *(continuation)*	Determination of sulfur dioxide content in food other than dried onions, leeks and cabbage (volumetry/gravimetry)	LOQ 10mg/kg	AOAC 990.28:1994
			LOQ 0,5mg/kg	VM/MET 1226
		Determination of ash content (gravimetry)	LOQ 0,01 %	NMKL 173, 2nd Ed.:2005
		Determination of chloride content (NaCl) (potenciometry)	LOQ 0,05%	NMKL 178:2004
		Calculation of energy value and carbohydrates (calculation)		VM/MET 719
		Determination of dry matter in foodstuffs - vacuum method (gravimetry)	LOQ 0,05%	NMKL 169:2002
		Proving the presence of artificial colours (test)		NMKL 114:1985
		Determination of benzoic acid, sorbic and p-hydroxybenzoic acid content (HPLC-PDA)	LOQ 10 mg/kg	NMKL 124:2007
		Determination of acesulfame K, aspartame and saccharin content (HPLC-PDA)	LOQ 10 mg/kg	SRPS EN 12856:2008
		Determination of nitrate, nitrite and bromide content (IC with UV-detector)	NO_2^-, Br^-: LOQ 1 mg/kg NO_3^-: LOQ 10 mg/kg infant formula and baby food: NO_2^-, NO_3^-: LOQ 0,2 mg/kg	VM/MET 944
		Determination of D-Sorbitol (IC with electrochemical detector)	LOQ 0,01%	VM/MET 1088
		Determination of phosphorus content (spectrophotometry)	LOQ 4 mg/100g	NMKL 57, 2nd Ed:1994
	Products with added pepper	Determination of Sudan dyes (I,II,III and IV) (HPLC- PDA)	LOQ 0,5 mg/kg	VM/MET 945
	Wine, Soft drink	Determination of o-phosphates content (IC with conductometric detector)	LOQ 10 mg/l	VM/MET 946
	Food which contain water or which can be mixed with water	Determination of pH value	1 pH-14 pH	NMKL 179:2005

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Physical, chemical (analytical), biochemical and sensory analyses of food and animal feed

O.N.	Test object material / product	Type of test and/or measured characteristic (testing technique)	Measurement range/limit of detection/limit of quantification (if applicable)	Reference document
2.	**Food** *(continuation)* Milling and bakery products, pasta, soya products, spices, prepared dish, meat products, soft drinks, cocoa products, coffee products, ice cream, oils, aroma	Determination of allergen – gluten (ELISA- photometry)	LOQ 5 mg/kg	Ridascreen Gliadin [22] R7001, R-Biopharm AG
	Fermented and hydrolyzed foods (beer, starch syrup, starch, malt extract, fermented products - sour dough, fermented dairy product, soy sauce)	Determination of allergens - gluten (ELISA - photometry)	LOQ 10 mg/kg	Ridascreen Gliadin competitive [37] R7021, R-Biopharm AG
	Cakes, crackers, cocoa products, ice cream, cereals, snack products	Determination of allergen – peanut (ELISA - photometry)	LOQ 2,5 mg/kg	Veratox for Peanut Allergen (8430) [24] Neogen
		Determination of allergen – haselnut (ELISA - photometry)	LOQ 2,5 mg/kg	Veratox for Hazelnut Allergen (8420) [25] Neogen
	Cakes, crackers, energy products, ice cream, cereals, snack products, salad dressings, liquid products (milk, juices, ...), clean-in-place rinses	Determination of allergen – soya (ELISA - photometry)	LOQ 2,5 mg/kg	Veratox for Soy Allergen (8410) [26] Neogen
	Biscuits, cakes and raw materials and mixtures for their preparation, juices and drinks without milk and powders for their preparation, sauces and spreads, snack products, meat products, clean-in-place rinses	Determination of allergen – milk (ELISA - photometry)	LOQ 2,5 mg/kg	Veratox for Total Milk Allergen (8470) [35] Neogen

Location of testings: laboratory (Bečej, Industrijska 3)
Physical, chemical (analytical), biochemical and sensory analyses of food and animal feed

O.N.	Test object material / product	Type of test and/or measured characteristic (testing technique)	Measurement range/limit of detection/limit of quantification (if applicable)	Reference document
2.	**Food** *(continuation)* Cereal products (dough, snack products...); salad dressings and spreads; biscuits, cookies, cakes and mixtures for their preparation; ice cream	Determination of allergen – egg (ELISA - photometry)	LOQ 2,5 mg/kg	Veratox for Egg Allergen (8450) [36] Neogen
	Meat and meat products, oil, mayonnaise, vegetable products, cheese, bakery products, soups and sauces	Determination of allergens - mustard (ELISA - photometric)	LOQ 0,5mg/kg	Ridascreen Fast Senf/Mustard [40] R6152, R-Biopharm AG
	Soups, sauces, food additives, spices, confectionery products, milled and bakery products, oilseeds and their leguminous products, meat products, starch	Determination of allergens - sesame (ELISA - photometric)	LOQ 2,5 mg/kg	Ridascreen Fast Sesame[46] R7202, R-Biopharm AG
	Protein materials for food industry	Determination of water content (gravimetry)	LOQ 0,01%	Regulation [1] method 1
		Determination of fat content by Soxhlet (gravimetry)	LOQ 0,05%	Regulation [1] method 2
		Determination of water hydration capacity (gravimetry)		AACC method 56-30-01:1999
	Animal and vegetable oils and fats	Determination of egg yolk content in mayonnaise and related products (spectrophotometry)	LOQ 1%	SRPS E.K8.049:1997
		Determination of moisture and volatile matter content (gravimetry)	LOQ 0,01%	SRPS EN ISO 662:2017
		Determination of insoluble impurities (gravimetry)	LOQ 0,01%	SRPS EN ISO 663:2017
		Determination of mass per volume (litre weight in air) (pycnometry)		SRPS EN ISO 6883:2017

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Physical, chemical (analytical), biochemical and sensory analyses of food and animal feed

O.N.	Test object material / product	Type of test and/or measured characteristic (testing technique)	Measurement range/limit of detection/limit of quantification (if applicable)	Reference document
2.	**Food** Animal and vegetable oils and fats *(continuation)*	Determination of refractive index (refractometry)	1,3320-1,7000	SRPS EN ISO 6320:2017
		Determination of iodine value - method byVijs (volumetry)	LOQ 0,5g/100g	SRPS EN ISO 3961:2019
		Determination of saponification value (volumetry)		SRPS EN ISO 3657:2023
		Determination of unsaponifiable matter (gravimetry)		SRPS EN ISO 18609:2012
		Determination of Lovibond colour (spectrophotometry)	0,1 red-7 red 1 yellow-70 yellow	ISO 27608:2010 ISO 27608:2010/ Amd. 1:2016
		Determination of alcalinity (volumetry)		SRPS EN ISO 10539:2008
		Determination of residual technical hexane content (GC/FID/HSS)	LOQ 10 mg/kg	SRPS EN ISO 9832:2008
		Determination of anisidine value (spectrophotometry)		SRPS EN ISO 6885:2017
		Determination of acid value and acidity (volumetry)	LOQ 0,01%	SRPS EN ISO 660:2021
		Determination of peroxide value (volumetry)	0 mmol/kg - 15mmol/kg	SRPS EN ISO 3960:2017
		Determination of phosphorus content (spectrophotometry)	LOQ 0,001%	AOCS method Ca 12-55:2017
		Determination of fatty acid content (GC/FID)	LOQ 0,02%	SRPS EN ISO 12966-1:2015
	Lecithin	Determination of moisture and volatile matter content (gravimetry)	LOQ 0,01%	IS 5055:1996 (Amendment No.I february 2006), Anex C
		Determination of acetone-insoluble matter content (gravimetry)	LOQ 30%	AOCS method Ja 4-46:2017
		Determination of toluene-insoluble matter content (gravimetry)	LOQ 0,01%	ISO 28198:2018
		Determination of acid value (volumetry)	LOQ 0,1 mgKOH/g	AOCS method Ja 6-55:2017
		Determination of peroxide value (volumetry)	LOQ 0 meq/kg	AOCS method Ja 8-87:2022
		Determination of lecithin colour by Gardner method (spectrophotometry)	1-18	AOCS method Ja 9-87:2017

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Physical, chemical (analytical), biochemical and sensory analyses of food and animal feed

O.N.	Test object material / product	Type of test and/or measured characteristic (testing technique)	Measurement range/limit of detection/limit of quantification (if applicable)	Reference document
2.	**Food** *(continuation)* Oilseeds	Determination of moisture and volatile matter content (gravimetry)	LOQ 0,01%	SRPS EN ISO 665:2020
		Determination of impurities content (gravimetry)	LOQ 0,01%	SRPS EN ISO 658:2008
		Determination of oil content (gravimetry)	LOQ 0,03%	SRPS EN ISO 659:2011
		Determination of acidity of oils (volumetry)	LOQ 0,05%	SRPS ISO 729:1992
	Grains and milling products	Determination of ash content (gravimetry)	LOQ 0,01%	SRPS EN ISO 2171:2023
		Determination of ash content insoluble in HCl (gravimetry)	LOQ 0,01%	Regulation [3] group I method 11
		Determination of acidity (volumetry)	LOQ 0,3	Regulation [3] group I method 16
		Determination of starch content by Ewers (polarimetry)		Regulation [3] group I method 28
	Bakery products	Determination of water content in bakery products (gravimetry)	LOQ 0,01%	Regulation [3] group II method 1
	Pastas	Determination of water content (gravimetry)	LOQ 0,01%	Regulation [3] group III method 5
		Determination of lipid content (gravimetry)	LOQ 0,01%	Regulation [3] group III method 7
	Quick frozen dough	Determination of water content in quick frozen dough (gravimetry)	LOQ 0,01%	Правилник [3] група IV метода 2
	Maize	Determination of impurities content in maize (gravimetry)	LOQ 0,01%	SRPS EN 16378:2014/Corr.I:2019
	Rice	Determination of impurities content in rice (gravimetry)	LOQ 0,01%	Regulation [3] group I method 5
	Wheat germ	Determination of acidity in wheat germ (volumetry)	LOQ 8 ml 1M NaOH/100g of fat	Regulation [3] group I method 17
	Meat, fish and products of meat and fish	Determination of moisture content (gravimetry)	LOQ 0,01%	SRPS ISO 1442:1998
		Determination of nitrite content (spectrophotometry)	LOQ 3 mg/kg	SRPS ISO 2918:1999
		Determination of nitrate content (spectrophotometry)	LOQ 3 mg/kg	SRPS ISO 3091:1999
		Determination of total phosphorus content (spectrophotometry)	0,05%-1,0%	SRPS ISO 13730:1999

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Physical, chemical (analytical), biochemical and sensory analyses of food and animal feed

O.N.	Test object material / product	Type of test and/or measured characteristic (testing technique)	Measurement range/limit of detection/limit of quantification (if applicable)	Reference document
2.	**Food** Meat, fish and products of meat and fish *(continuation)*	Determination of hydroxyproline content (spectrophotometry)	max 0,5%	SRPS ISO 3496:2002
		Determination of free fat content (gravimetry)	LOQ 0,05%	SRPS ISO 1444:1998
		Determination of pH value (potenciometry)	1 pH -14 pH	SRPS ISO 2917:2004
	Coffee and coffee products	Determination of caffeine content (HPLC-PDA)	coffee and coffee products: LOQ 0,1% coffee and coffee products without caffeine: LOQ 0,02%	SRPS ISO 20481:2014
	Green coffee	Determination of foreign matters content and defects (gravimetry)	LOQ 0,01%	SRPS ISO 4149:2014 except point 5 and 6
		Determination of loss in mass at 105°C (gravimetry)	LOQ 0,01%	SRPS ISO 6673:2016
	Roasted coffee	Determination of soluble matters (extract) (gravimetry)	LOQ 0,01%	AOAC method 973.21:1974
		Determination of moisture in roasted coffee (gravimetry)	LOQ 0,01%	SRPS ISO 11294:2019
	Instant coffee	Determination of loss in mass at 70ºC under reduced pressure (gravimetry)	LOQ 0,01%	SRPS ISO 3726:1995
	Table salt (Sodium chloride)	Determination of substances insoluble in water or in acid (gravimetry)	LOQ 0,001%	SRPS ISO 2479:2015
		Determination of loss in mass at 110^0C (gravimetry)	LOQ 0,001%	SRPS ISO 2483:2015
		Determination of iodine content (volumetry)	LOQ 0,75 mg/kg	SRPS E.Z8.002:2001
		Determination of pH value (potenciometry)	1 pH-14 pH	SRPS H.G8.079:1983
		Determination of NaCl content (volumetry)	LOQ 1%	SRPS H.G8.077:1983
	Sugar	Determination of loss in mass on drying (gravimetry)	LOQ 0,001%	ICUMSA method GS2/1/3/9-15:2007
		Determination of ash content (conductometry)	LOQ 0,001%	ICUMSA method GS2/3/9-17:2011
		Determination of polarization (polarimetry)	max 100°Z	SRPS E.L8.018:1992
		Determination of reducing sugars (volumetry)	LOQ 0,002%	ICUMSA method GS2/3/9-5:2011

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Physical, chemical (analytical), biochemical and sensory analyses of food and animal feed

O.N.	Test object material / product	Type of test and/or measured characteristic (testing technique)	Measurement range/limit of detection/limit of quantification (if applicable)	Reference document
2.	**Food** Sugar *(continuation)*	Determination of colour in sugar solution (spectrophotometry)	max 60 IU	ICUMSA method GS2-10:2024
		Determination of sulphur-dioxide (spectrophotometry)	LOQ 0 mg/kg	SRPS E.L8.020:1993
		Determination of crystal color type (reflexometry)	0 color type - 6 color type	ICUMSA method GS2-13:2024
	Sugar, sugar syrup, special sugars, molasse	Determination of pH value (potenciometry)	1 pH-14 pH	ICUMSA method GS1/2/3/4/7/8/9-23:2009
	Dissolved sugar, syrups, molasse	Determination of dry matter (refractometry)	0 %-95 %	ICUMSA method GS4/3/8-13:2009
	Molasse	Determination of sugar in molasse (polarimetry)		SRPS E.L3.020:1963
	Cocoa products, products similar to chocolates, creamy - products (spreads)	Determination of lactose by Luff-Schoorl method (volumetry)	LOQ 0,3%	Regulation [4] method 13
		Determination of cocoa (spectrophotometry)	LOQ 1,7%	Regulation [4] method 17
	Cocoa products, products similar to chocolates, creamy-products (spreads), candies, biscuits and similar products, breakfast cereals, snack products and confectionery products	Determination of water by drying under normal pressure (gravimetry)	LOQ 0,01%	Regulation [4] method 1
			LOQ 0,01%	Regulation [4] method 2
		Determination of crude fibre by *Kürschner-Hanack* method (gravimetry)	LOQ 0,01%	Regulation [4] method 8
		Determination of milk fat (volumetry)	LOQ 0,3%	Regulation [4] method 10
		Determination of pH value (potenciometry)	1 pH -14 pH	Regulation [4] method 16
		Determination of starch by Ewers (polarimetry)	0%-100%	Regulation [4] method 19

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Physical, chemical (analytical), biochemical and sensory analyses of food and animal feed

O.N.	Test object material / product	Type of test and/or measured characteristic (testing technique)	Measurement range/limit of detection/limit of quantification (if applicable)	Reference document
2.	**Food** Cocoa products, products similar to chocolates, creamy-products (spreads), candies, biscuits and similar products, breakfast cereals, snack products and confectionery products *(continuation)*	Determination of sugar content by Luff-Schoorl method (volumetry)	for natural invert: LOQ 1% for total invert sugar: LOQ 4%	Regulation [4] method 12
	Tea	Determination of loss in mass at 103^{0}C (gravimetry)	LOQ 0,01%	SRPS ISO 1573:1995
		Determination of total ash (gravimetry)	LOQ 0,01%	SRPS ISO 1575:1995
		Determination of water extract (gravimetry)	LOQ 0,01%	SRPS ISO 9768:1994/ Cor. 1:2014
	Tea and instant tea in solid form	Determination of caffeine content (HPLC-PDA)	LOQ 0,3%	SRPS ISO 10727:2015
	Barley malt	Determination of moisture of barley malt (gravimetry)	LOQ 0.01%	EBC 4.2:2000
		Determination of impurities in barley malt (gravimetry)	LOQ 0.01%	EBC 4.22:2005
		Determination of color of malt extract (spectrophotometry)	3 EBC units -26 EBC units	EBC 4.7.1:2000
		Determination of extract content (Congress method)	68%-90%	EBC 4.5.1:2004 and 5.5:2000
	Solid adjuncts-corn for brewing	Determination of extract content (Congress method)	65%-95%	EBC 6.5:2020
	Solid adjuncts for brewing	Determination of free fat content (gravimetry)	LOQ 0,03%	EBC 6.10:1997
	Beer	Determination of color (spectrophotometry)	LOQ 5 EBC jed.	EBC 9.6:2000
		Determination of ethanol and real extract in beer and malt extract (picnometry)	LOQ 0,07 % v/v of ethanol	MEBAK 2.13.4
		Determination of pH (potenciometry)	1 pH-14 pH	EBC 9.35:2004
		Determination of nitrosamine (NDMA) (LC/MS/MS)	LOQ 10µg/kg	VM/MET 1332

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O.N.	Test object material / product	Type of test and/or measured characteristic (testing technique)	Measurement range/limit of detection/limit of quantification (if applicable)	Reference document
2.	**Food** *(continuation)* Beer, water and carbonated beverages	Determination of carbon-dioxide (manometry)	2,5 g/l -10 g/l	EBC 9.28.3:2007
	Citrus fruits	Determination of juice content in citrus fruits (gravimetry)	LOQ 1%	OECD: International Standards for Fruit and Vegetables – Citrus
	Fruit and vegetable juices and similar products	Determination of the formol number (volumetry)	LOQ 0.5 ml 0.1M NaOH/100ml	SRPS EN 1133:2005
		Determination of relative density (picnometry)		SRPS EN 1131:2005
		Determination of L-malic acid content (enzymatic, spectrophotometry)	LOQ 0,005 g/l	SRPS EN 1138:2005
		Determination of phosphorus content (spectrophotometry)	LOQ 4 mg/l	SRPS EN 1136:2008
		Determination of D/L-lactic acid content (enzymatic, spectrophotometry)	LOQ 4 mg/l	SRPS EN 12631:2005
		Determination of HMF in juices (spectrophotometry)	LOQ 1 mg/l	IFU 12:2005
		Determination of ash (gravimetry)	LOQ 0,02 g/l	SRPS EN 1135:2005
		Determination of citric acid content (enzymatic, spectrophotometry)	LOQ 10mg/l	SRPS EN 1137:2005
		Determination of total dry matter (gravimetry)	LOQ 0,01 %	SRPS EN 12145:2005
		Determination of D-isocitric acid content (enzymatic, spectrophotometry)	LOQ 7 mg/l	SRPS EN 1139:2005
		Determination of ethanol content (enzymatic, spectrophotometry)	LOQ 0,002 g/l	IFU 52:2005
		Determination of soluble dry matter (refractometry)	0%-95%	SRPS EN 12143:2005
	Fruits, vegetables and products from fruits, vegetables and mushrooms	Determination of total sulphur dioxide (volumetry/ spectrophotometry)	LOQ 0,3 mg/kg	SRPS ISO 5522:2003
		Determination of volatile acids (volumetry)	LOQ 0,01g of acetic acid /100ml(g)	SRPS ISO 6632:2003

Location of testings: laboratory (Bečej, Industrijska 3)
Physical, chemical (analytical), biochemical and sensory analyses of food and animal feed

O.N.	Test object material / product	Type of test and/or measured characteristic (testing technique)	Measurement range/limit of detection/limit of quantification (if applicable)	Reference document
2.	**Food** *(continuation)* Canned peas	Determination of matter insoluble in ethanol (gravimetry)	LOQ 1%	Regulation [6] method 22
	Products from fruits, vegetables and mushrooms	Determination of reducing and total sugars (volumetry)	for reducing sugars.: LOQ 1% for total sugars.: LOQ 4%	Regulation [6] method 3
		Determination of pH (potenciometry)	1 pH -14 pH	SRPS ISO 1842:2011
		Determination of acidity (volumetry)	LOQ 0,01 %	SRPS ISO 750:2003
	Products from fruits, vegetables, and mushrooms, Mustard	Determination of ash insoluble in HCl (gravimetry)	LOQ 0,01%	SRPS ISO 763:2007
		Determination of total dry matter (gravimetry)	LOQ 0,01%	Regulation [6] method 2a
	Products from fruits and vegetables	Determination of soluble dry matter (refractometry)	0%-95%	SRPS ISO 2173:2007
	Soft drinks	Determination of caffeine and quinine content (HPLC-PDA)	LOQ 10 mg/l	VM/MET 948
	Energy drinks	Determination of taurine content (IC with electrochemical detector)	LOQ 100mg/l	VM/MET 1069
	Milk and dairy products	Determination of acidity in milk (volumetry)	LOQ 0,1 °SH	Regulation [9] VII group I method 2
		Determination of titratable acidity in powdered milk (volumetry)	LOQ 0,1 ml	SRPS ISO 6091:2014
		Determination of fat content in milk and condensed milk by Gerber method (acidobutyrometry)	0%-16%	Regulation [9] VII group I method 3 group III method 2
		Determination of fat content in yogurt, sour milk and kefir by Gerber method (acidobutyrometry)	0%-8%	Regulation [9] VII group II method 1 group IX method 1
		Determination of fat content in cream and kajmak (creamy dairy product) by Gerber method (acidobutyrometry)	0%-60%	Regulation [9] VII group V method 1 group VII method 2
		Determination of fat content in cheese by Gerber method (acidobutyrometry)	0%-40%	Regulation [9] VII group VI method 2

Location of testings: laboratory (Bečej, Industrijska 3)
Physical, chemical (analytical), biochemical and sensory analyses of food and animal feed

O.N.	Test object material / product	Type of test and/or measured characteristic (testing technique)	Measurement range/limit of detection/limit of quantification (if applicable)	Reference document
2.	**Food** Milk and dairy products *(continuation)*	Determination of fat content in butter by Gerber method (acidobutyrometry)	70%-90%	Regulation [9] VII group VIII method 2
		Determination of dry matter content in milk, sour milk, yoghurt and kefir (gravimetry)	LOQ 0,01 %	Regulation [9] VII group I method 4, group II method 3, group IX method 3
		Determination of dry matter content in condensed milk and ice-cream (gravimetry)	LOQ 0,01%	Regulation [9] VII group III method 1, group X method 2
		Determination of lactose content in milk and powdered whey (gravimetry)	LOQ 10%	GEA Niro [20] Analytical Method A 18b
		Determination of water content in powdered milk (gravimetry)	LOQ 0,01%	Regulation [9] VII group IV method 1
		Determination of water content in cheese and kajmak (creamy dairy product) (gravimetry)	LOQ 0,01%	Regulation [9] VII group VI method 1, group VII method 1
		Determination of water content in butter (gravimetry)	LOQ 0,01%	SRPS EN ISO 3727-1:2007
		Determination of melamine (LC/MS/MS)	LOQ 0,1 mg/kg	SRPS ISO/TS 15495:2013
		Determination of non-fat solids in butter (gravimetry)	LOQ 0,02%	SRPS EN ISO 3727-2:2007
	Powdered milk and products from powdered milk	Determination of fat content (gravimetry)	LOQ 0,1%	SRPS EN ISO 1736:2010
	Raw milk, milk and powdered milk	Determination of aflatoxin M1 content (ELISA - photometry)	LOQ 0,01 µg/kg	SPRS EN ISO 14675:2008 Ridascreen Aflatoxin M1 R1121 [38] RBiopharm AG
	Starch and starch products	Determination of water content (gravimetry)	LOQ 0,01%	SRPS EN ISO 1666:2008
		Determination of loss in mass on drying in vacuum oven in anhydrous dextrose and dextrose monohydrat (gravimetry)	LOQ 0,01%	SRPS EN ISO 1741:2008
		Determination of dry matter in syrups (refractometry)	0%-84%	ISO 1743:1982

Location of testings: laboratory (Bečej, Industrijska 3)
Physical, chemical (analytical), biochemical and sensory analyses of food and animal feed

O.N.	Test object material / product	Type of test and/or measured characteristic (testing technique)	Measurement range/limit of detection/limit of quantification (if applicable)	Reference document
2.	**Food** Starch and starch products *(continuation)*	Determination of protein content by Kjeldahl method (volumetry)	LOQ 0,1%	SRPS EN ISO 3188:2008
		Determination of ash content (gravimetry)	LOQ 0,01%	SRPS EN ISO 3593:2008
		Determination of total fat content (gravimetry)	0,01% - 1,5%	SRPS EN ISO 3947:2008
		Determination of sulphated ash (gravimetry)	LOQ 0,01%	SRPS EN ISO 5809:2008
		Determination of pH value in starch and starch hydrolisates (potenciometry)	1 pH-14 pH	ISI [18)] method 26-5e
		Determination of sulphur-dioxide content (volumetry/ spectrophotometry)	LOQ 0,3 mg/kg	ISO 5379:2013
	Baker's yeast	Determination of water content (gravimetry)	LOQ 0,01%	SRPS E.M8.022:1987
	Spices and herbs	Determination of volatile oil content (measuring after distillation)	LOQ 0,05 ml/100g	SRPS EN ISO 6571:2016 SRPS EN ISO 6571:2016/A1:2019
	Spices, Spice extracts, Spice mixtures	Determination of moisture content (measuring after distillation)	LOQ 1,5%	SRPS ISO 939:2021
		Determination of foreign matters content (gravimetry)	LOQ 0,01%	SRPS EN ISO 927:2012/ AC 2014
		Determination of ash content (gravimetry)	LOQ 0,01%	SRPS ISO 928:2001
		Determination of acid-insoluble ash (gravimetry)	LOQ 0,01%	SRPS ISO 930:2001
	Spices	Determination of non-volatile ether extract (gravimetry)	LOQ 0,01%	SRPS ISO 1108:1997
	Pepper (spice)	Determination of total natural colouring matter (spectrophotometry)	LOQ 37 ASTA	SRPS EN ISO 7541:2020
	Pepper and pepper oleoresin	Determination of piperine content (spectrophotometry)	LOQ 0,5%	AOAC 987.07:1990
	Vinegar	Determination of sulphur-dioxide content (volumetry)	LOQ 3 mg/l	OIV-MA-VI-09:2008
		Determination of total ash (gravimetry)	LOQ 0,5 g/l	OIV-MA-VI-07:2000
		Determination of invert sugars (gravimetry)	LOQ 0,9 g/l	Regulation [17)] method 4

Location of testings: laboratory (Bečej, Industrijska 3)
Physical, chemical (analytical), biochemical and sensory analyses of food and animal feed

O.N.	Test object material / product	Type of test and/or measured characteristic (testing technique)	Measurement range/limit of detection/limit of quantification (if applicable)	Reference document
2.	**Food** Vinegar *(continuation)*	Determination of ethanol content (picnometry)	LOQ 0,06 % vol	Regulation [17] method 2
		Determination of extract content (gravimetry)	LOQ 1 g/l	OIV-MA-VI-06:2000
		Determination of total acids as acetic acid (volumetry)	LOQ 2 g/l	OIV-MA-VI-01:2018
		Determination of fixed (non-volatile) acidity (volumetric)	LOQ 0,5 g/l	OIV-MA-VI-02:2000
	Honey, honey products	Determination of water content in honey (refractometry)	13%-25%	Regulation [10] method 4
		Determination of acidity of honey (volumetry)	LOQ 0,5 mmol/kg	Regulation [10] method 7
		Determination of water-insoluble matter content (gravimetry)	LOQ 0,005%	Regulation [10] method 5
		Determination of electrical conductivity of honey (conductometry)	0,1-3 mS/cm	IHC method 2:2009
		Determination of hydroxymethyl furfurol (spectrophotometry)	LOQ 1 mg/kg	Regulation [10] method 9
		Determination of diastase activity (enzymatic, spectrophotometry)	LOQ 1 DN	Megazyme assay procedure T-AMZHY [19]
	Honey	Determination of the stable carbon isotope ratio ($^{13}C/^{12}C$) (IRMS)		AOAC 998.12:1998
	Eggs and egg products	Determination of dry matter by drying (gravimetry)	LOQ 0,01%	Regulation [11] group II method 1
	Soups, sauces, seasonings and related products	Determination of water content (gravimetry)	LOQ 0,01%	SRPS E.Z8.011:1993
		Determination of sodium chloride content (volumetry)	LOQ 0,1%	SRPS E.Z8.012:1994
		Determination of sodium glutamate (volumetry)	LOQ 0,46%	SRPS E.Z8.018:1994
	Gelatin	Determination of moisture content in gelatin (gravimetry)	LOQ 0,01%	AOAC method 935.46:1935
	Additives	Determination of loss in mass on drying (gravimetry)	LOQ 0,01%	VM/MET 1000
		Determinatiom of maximum of absorbance (spectrophotometry)	200 nm-800 nm	Ph EU 6.0, volume 1:2008 Method 2.2.25.

Location of testings: laboratory (Bečej, Industrijska 3)
Physical, chemical (analytical), biochemical and sensory analyses of food and animal feed

O.N.	Test object material / product	Type of test and/or measured characteristic (testing technique)	Measurement range/limit of detection/limit of quantification (if applicable)	Reference document
2.	**Food** Additives *(continuation)*	Determination of purity of E330, E501(i), E500(i), E500(ii), E501(ii), E503(ii), E524, E223, E224, E338, E334, E260, E270, KJ, E507, E513 (volumetry)	max 100%	Ph EU 6.0, volume 2:2008 page: 1555, 2717, 2894, 2906, 2724, 1180, 2907, 2911, 2727, 2675, 3018, 1097, 2228, 2726, 2085, 2998
		Determination of sulphated ash (gravimetry)	LOQ 0,01%	Ph EU 6.0, volume 1:2008 Method 2.4.14.
	Wine	Determination of acidity (volumetry)	LOQ 2 g/l	OIV MA-AS313-01:2015
		Determination of total sulphur dioxide (volumetry)	LOQ 15 mg/l	OIV, MA-AS323-04B:2009
		Determination of ash content (gravimetry)	LOQ 0,5 g/l	OIV, MA-AS2-04:2009
		Determination of ethanol content (picnometry)	LOQ 4% vol	Handbook [13] page 88.
		Determination of extract (picnometry)	LOQ 15 g/l	OIV MA-AS2-03B:2012
		Determination of sugar (volumetry)	LOQ 0,4g/l	OIV MA-AS311-01A:2009
		Determination of volatile acids in wine (volumetry)	LOQ 0,1g/l	OIV MA-AS313-02:2015
		Determination of L-malic acid content (enzymatic, spectrophotometry)	LOQ 0,005 g/l	OIV-MA-AS313-11:2009
		Determination of D/L lactic acid content (enzymatic, spectrophotometry)	LOQ 0,002 g/l	OIV-MA-AS313-07:2009
		Determination of citric acid content (enzymatic, spectrophotometry)	LOQ 5 mg/l	OIV-MA-AS313-09:2009
		Determination of pH (potenciometry)	1 pH-14 pH	OIV-MA-AS313-15:2011
		Determination of methanol (GC/FID)	50 mg/l-500mg/l	OIV-MA-AS312-03A:R2015
	Alcoholic drinks	Determination of alcohol content (picnometry)	2,5% vol -100% vol	Regulation [8] method 1(A)
		Determination of extract content (gravimetry)	LOQ 0,01 g/l	Regulation [8] method 2
		Determination of total acidity (volumetry)	LOQ 6 mg/l aa	Regulation [8] method 3

Location of testings: laboratory (Bečej, Industrijska 3)
Physical, chemical (analytical), biochemical and sensory analyses of food and animal feed

O.N.	Test object material / product	Type of test and/or measured characteristic (testing technique)	Measurement range/limit of detection/limit of quantification (if applicable)	Reference document
2.	**Food** Alcoholic drinks *(continuation)*	Determination of volatile esters, expressed as ethyl acetate (spectrophotometry)	LOQ 10 mg/l aa	AOAC method 972.07:1973
		Determination of higher alcohol content (spectrophotometry)	LOQ 100 mg/l aa	Regulation [8] method 6
		Determination of aldehyde content (volumetry)	LOQ 5 mg/l aa	Regulation [8] method 7
		Determination of phurphurol content (spectrophotometry)	LOQ 0,5 mg/l aa	Regulation [8] method 8
		Determination of sugar content (gravimetry)	LOQ 18g/l	Regulation [8] method 9
		Determination of benzaldehyde content (spectrophotometry)	LOQ 5 mg/l aa	Regulation [8] method 12
		Determination of HCN content (spectrophotometry)	LOQ 0,1 mg/l aa	Regulation [8] method 13
		Determination of methanol (GC/FID)	LOQ 10g/hl a.a	AOAC 972.11:2000
		Determination of ethyl carbamate (GC/MS/MS)	LOQ 10µg/l	VM/MET 1334
	Wine	Determination of the stable carbon isotope ratio ($^{13}C/^{12}C$) (IRMS)		OIV-MA-AS312-06:R2009
	Alcoholic distillates and alcoholic drinks			VM/MET 960
	Wine	Determination of the stable oxygen isotope ratio ($^{18}O/^{16}O$) (IRMS)		OIV-MA-AS2-12:R2009
	Alcoholic distillates and alcoholic drinks			VM/MET 960
	Wine, alcoholic distillates and alcoholic drinks	Determination of the stable hydrogen isotope ratio (D/H) (IRMS)		VM/MET 960
3.	**Animal feed**	Determination of crude ash (gravimetry)	LOQ 0,01 %	SRPS ISO 5984:2023
		Determination of ash insoluble in HCl (gravimetry)	LOQ 0,01%	SRPS ISO 5985:2014
		Determination of pH value (potenciometry)	1 pH -14 pH	Regulation [2] method 15
		Determination of Ca content (volumetry)	LOQ 1g/kg	SRPS ISO 6490-1:2001
		Determination of total phosphorus content (spectrophotometry)	LOQ 0,05%	Regulation [2] method 29

Location of testings: laboratory (Bečej, Industrijska 3) **Physical, chemical (analytical), biochemical and sensory analyses of food and animal feed**				
O.N.	**Test object material / product**	**Type of test and/or measured characteristic (testing technique)**	**Measurement range/limit of detection/limit of quantification (if applicable)**	**Reference document**
3.	**Animal feed** *(continuation)*	Determination of impurities content (gravimetry)	LOQ 0,01%	Regulation [2] method 3
		Determination of starch content (polarimetry)	LOQ 1g/kg	SRPS ISO 6493:2004
		Determination of water soluble chloride content (volumetry)	LOQ 0,05%	SRPS ISO 6495-1:2018
		Determination of crude cellulose content (gravimetry)	LOQ 1%	SRPS EN ISO 6865:2008
		Determination of crude protein content by Kjeldahl (volumetry)	LOQ 0,1%	SRPS EN ISO 5983-1:2010
		Determination of water and other volatile matter content (gravimetry)	LOQ 0,01%	SRPS ISO 6496:2001
		Determination of fat content (gravimetry)	LOQ 0,05%	SRPS ISO 6492:2001
		Determination of ammoniacal nitrogen (volumetry)	LOQ 0,01%	Regulation [2] method 8
	Oilseed residues	Determination of fat content (gravimatry)	LOQ 0,05%	SRPS EN ISO 734:2023
		Determination of moisture content (gravimetry)	LOQ 0,01%	SRPS ISO 771:2022

Location of testings: laboratory (Bečej, Industrijska 3) and on the field* **Physical, chemical (analytical) testings and sensory analyses: water**				
O.N.	**Test object material / product**	**Type of test and/or measured characteristic (testing technique)**	**Measurement range/limit of detection/limit of quantification (if applicable)**	**Reference document**
4.	**Water** Drinking water, surface and saline water, waste water, atmospheric deposition	Determination of conductivity (conductometry)	0,1 µS/cm – 100000 µS/cm	EPA 120.1:1982
	Natural and treated water, waste water	Determination of alkalinity (volumetry)	0,4 mmol/l – 20 mmol/l	SRPS EN ISO 9963-1:2007
	Drinking water, surface and saline water, waste water	Determination of total hardness of water (complexometry)	LOQ 0,05°dH	EPA 130.2:1978, 1982
		Determination of total residue in water (gravimetry)	10mg/l-20000 mg/l	EPA 160.3:1971

Location of testings: laboratory (Bečej, Industrijska 3) and on the field*
Physical, chemical (analytical) testings and sensory analyses: water

O.N.	Test object material / product	Type of test and/or measured characteristic (testing technique)	Measurement range/limit of detection/limit of quantification (if applicable)	Reference document
4.	**Water** Drinking water, surface and saline water, waste water *(continuation)*	Determination of suspended solids content in water (gravimetry)	4mg/l-20000 mg/l	EPA 160.2:1971
		Determination of residue after filtration (gravimetry)	10mg/l-20000 mg/l	EPA 160.1:1971
		Determination of pH value (potenciometry)	1pH-14 pH	EPA 150.1:1978,1982
	Water for human use, water for domestic use, drinking water, natural mineral water, well water, bottled water, pool water	Determination of permanganate index (demand of $KMnO_4$) in water (volumetry)	LOQ 0,4 mg O_2/l	SRPS EN ISO 8467:2007
	Drinking water, surface water (river, sea,…), raw water, industrial water, waste water	Determination of water colour (spectrophotometry)	0°Pt-Co -200°Pt-Co	SRPS EN ISO 6271:2016
		Determination of turbidity of water (turbidimetry)	0 NTU -1000 NTU	SRPS EN ISO 7027-1:2016
	Raw, drinking and waste water	Determination of nitrogen content in water (volumetry)	LOQ 1 mg/l	SRPS EN 25663:2009
	Surface water, saline water, waste water	Determination of settleable matter in water (Imhoff)	LOQ 0,2 ml/l/h	EPA 160.5:1974
		Determination of fat and oil content in water (gravimetry)	LOQ 5 mg/l	EPA 1664A:1999
	Drinking water, surface water, waste water and groundwater	Determination of anions (fluoride, chloride, nitrite, bromide, nitrate, phosphate and sulfate) (IC with conductometric detector and UV detector)	NO_2^-, NO_3^-, Br^-: LOQ 0,01 mg/l F^-, Cl^-,PO_4^{3-} ,SO_4^{2-} : LOQ 0,1 mg/l	SRPS EN ISO 10304-1:2009
		Determination of cations (NH_4^+, Na^+, K^+, Mg^{2+}, Ca^{2+}) (IC with conductometric detector)	Na^+, K^+, Mg^{2+}, Ca^{2+}: LOQ 0,1 mg/l NH_4^+: LOQ 0,01 mg/l	SRPS EN ISO 14911:2009
	Water Drinking water, well water, industrial water, waste water, water in public baths and other treated waters	Determination of free and total residual chlorine* (photometry)	0 mg/l – 5 mg/l	VM/ MET 1254

Location of testings: laboratory (Bečej, Industrijska 3) **Chemical (analytical) testings: food, animal feed and fertilizers**				
O.N.	**Test object material / product**	**Type of test and/or measured characteristic (testing technique)**	**Measurement range/limit of detection/limit of quantification (if applicable)**	**Reference document**
5.	**Food Animal feed Fertilizers**	Determination of crude protein content (Total combustion by Dummas)	LOQ 0,01% of nitrogen LOQ 0,1% of protein	SRPS EN ISO 16634-1:2010 SRPS EN ISO 16634-2:2016 SRPS EN ISO 14891:2010 AOAC 992.15:1996 AOAC 993.13:1997

Location of testings: laboratory (Bečej, Industrijska 3) **Chemical (analytical) testings: food, animal feed, cosmetics and chemical products**				
O.N.	**Test object material / product**	**Type of test and/or measured characteristic (testing technique)**	**Measurement range/limit of detection/limit of quantification (if applicable)**	**Reference document**
6.	**Food Animal feed Cosmetics Chenical products**	Measurement of the weight of sample /weight of the part of the sample (gravimetry)		VM/MET 739
		Determination of density (picnometry)	LOQ 0,7000 g/ml	VM/MET 1008
		Determination of density (hydrostatic scale)	0,5g/ml - 2,25g/ml	VM/MET 1227
		Determination of refractive index (refractometry)	1,3320-1,7000	VM/MET 1009

Location of testings: laboratory (Bečej, Industrijska 3)
Physical, chemical (analytical) testings and sensory analysis: paper, packaging, glass, ceramics, rubber, metal and plastic products and cosmetics

O.N.	Test object material / product	Type of test and/or measured characteristic (testing technique)	Measurement range/limit of detection/limit of quantification (if applicable)	Reference document
7.	**Products for general use** Paper, cardboard, cellulose	Determination of pH value of aqueous extracts (potenciometry)	1 pH-14 pH	SRPS ISO 6588-2:2021
	Cleaning and washing agents, goods for personal hygiene, cosmetics for face and body (Surface active agents)	Determination of free alkalinity or free acidity (volumetry)	LOQ 0,03 mg/g	SRPS ISO 4314:1992
	Cleaning and washing agents and raw materials for their production	Determination of pH value (potenciometry)	1 pH -14 pH	SRPS EN 1262:2012
	Goods for personal hygiene, cosmetics for face and body	Determination of pH value (potenciometry)	1 pH -14 pH	Regulation [12] method A
	Packaging and dishes (plastic, paper, cardboard)	Determination of Pb (ICP/MS)	LOQ 0,001 mg/kg	SRPS CR 13695-1:2008
	Packaging and dishes (plastic)	Determination of Cd and Hg (ICP/MS)	LOQ 0,001 mg/kg	
	Packaging and dishes (paper, cardboard)	Determination of As (ICP/MS)	LOQ 0,001 mg/kg	VM/MET 873
	Goods for personal hygiene	Determination of Pb, Cd, Hg, As, Ba, Ni and Cr (ICP/MS)	LOQ 0,001 mg/kg	
	Packaging, utensils and dishes (plastic)	Determination of migration of certain elements (Pb, Cd, Hg, As, Cr, Ba, Zn, Mo, Co, Cu, Fe, Mn, Sn and Se) (ICP/MS)	Hg: LOQ 0,001mg/l Pb, Cd, As, Cr, Ba, Mo, Se and Mn: LOQ 0,005 mg/l Zn, Sn, Co, Cu, Fe: LOQ 0,01 mg/l	VM/MET 876
		Test method for overall migration into evaporable aqueous food simulants (gravimetry)	LOQ 0,1 mg/dm^2	VM/MET 880
	Goods for personal hygiene	Determination of benzoic acid, sorbic and p-hydroxybenzoic acid content (HPLC/PDA)	LOQ 0,01 %	VM/MET 954

Location of testings: laboratory (Bečej, Industrijska 3) **Physical, chemical (analytical) testings and sensory analysis:** paper, packaging, glass, ceramics, rubber, metal and plastic products and cosmetics				
O.N.	**Test object material / product**	**Type of test and/or measured characteristic (testing technique)**	**Measurement range/limit of detection/limit of quantification (if applicable)**	**Reference document**
7.	**Products for general use** *(continuation)* Cosmetics and cosmetics with special purpose	Determination of organochlorine pesticides (GC/MS/MS) [32)] *List of organochlorine pesticides is in attachment*	LOQ 0,01 mg/kg	VM/MET 1158

Location of testings: laboratory (Bečej, Industrijska 3) **Physical and chemical (analytical) testings:** fertilizers				
O.N.	**Test object material / product**	**Type of test and/or measured characteristic (testing technique)**	**Measurement range/limit of detection/limit of quantification (if applicable)**	**Reference document**
8.	**Fertilizers** (plant nutrition products)	Determination of moisture content (gravimetry)	LOQ 0,01%	SRPS EN 12048:2011
		Determination of ammoniacal nitrogen (volumetry)	max 40%	SRPS EN 15475:2016
		Determination of nitric and ammoniacal nitrogen (volumetry)	max 40%	SRPS EN 15476:2016
		Determination of granulation by test sieving (gravimetry)	0%-100%	SRPS EN 1235:2011
		Extraction and determination of water soluble phosphorus in inorganic fertilisers (gravimetry)	LOQ 0,1%	SRPS EN 15958:2012 SRPS EN 15959:2024
		Extraction and determination of phosphorus soluble in neutral ammonium citrat in inorganic fertilisers (gravimetry)		SRPS EN 15957:2011 SRPS EN 15959:2024
		Extraction and determination of phosphorus soluble in mineral acids in inorganic fertilisers (gravimetry)		SRPS EN 15956:2011 SRPS EN 15959:2024
		Extraction and determination of sulphur present in various forms (gravimetry)	LOQ 0,1%	SRPS EN 15925:2011 SRPS EN 15749:2022 method A
		Extraction and determination of water soluble sulphur present in various forms (gravimetry)		SRPS EN 15926:2011 SRPS EN 15749:2022 метода A

Location of testings: laboratory (Bečej, Industrijska 3) **Physical and chemical (analytical) testings:** fertilizers				
O.N.	**Test object material / product**	**Type of test and/or measured characteristic (testing technique)**	**Measurement range/limit of detection/limit of quantification (if applicable)**	**Reference document**
8.	**Fertilizers** (plant nutrition products)	Determination of B, Ca, Co, Cu, Fe, Mg, Mn, Mo, Na, K and Zn (ICP/MS)	total and water soluble: -macroelement (K): LOQ 0.01% -secondary elements (Ca, Mg, Na): LOQ 0.0001% - microelements (B, Co, Cu, Fe, Mn, Mo, Zn): LOQ 0.0001%	VM/MET 882

Location of testings: Laboratory in Bečej, Industrijska 3 **Sensory analysis:** food, animal feed, water, cosmetics, glass, ceramics, paper, packaging, plastic, rubber and metal products, tobacco and tobacco products				
O.N.	**Test object material / product**	**Type of test and/or measured characteristic (testing technique)**	**Measurement range/limit of detection/limit of quantification (if applicable)**	**Reference document**
9.	**Food**	Determination of sensory properties (colour, smell, taste, appearance) (sensory)		SRPS ISO 6658:2018 point 5.4.2
	Animal feed Dishes, utensils and packaging, Goods for personal hygiene, Cosmetics for face and body, Cleaning and washing agents	Determination of sensory properties (colour, smell, appearance) (sensory)		

Location of testings: laboratory (Bečej, Industrijska 3)
Microbiological testings: food, animal feed, water, cosmetics, pharmaceutical preparations, samples from the surface

O.N.	Test object material / product	Type of test and/or measured characteristic (testing technique)	Measurement range/limit of detection/limit of quantification (if applicable)	Reference document
1.	**Food Animal feed Samples from the surface**	Horizontal method for the enumeration of microorganisms - Part 1: Colony count at 30ºC by the pour plate technique		SRPS EN ISO 4833-1:2014 SRPS EN ISO 4833-1:2014/ A1:2022
		Horizontal method for the detection and enumeration of *Clostridium* spp. – Part 1: Enumeration of sulfite-reducing Clostridium spp. by colony-count technique		SRPS ISO 15213-1:2023
		Horizontal method for the detection, enumeration and serotyping of Salmonella - Part 1: Detection of *Salmonella spp.*		SRPS EN ISO 6579-1:2017 except annex D/ SRPS EN ISO 6579-1:2017/A1:2020
		Horizontal method for the detection and enumeration of presumptive *Escherichia coli* - Most probable number technique		SRPS ISO 7251:2018 SRPS EN ISO 7251:2018 /Amd.1:2024
		Horizontal method for the detection and enumeration of *Enterobacteriaceae* - Part 1: Detection of Enterobacteriaceae		SRPS EN ISO 21528-1:2017
		Horizontal method for the detection and enumeration of *Enterobacteriaceae* - Part 2: Colony-count technique		SRPS EN ISO 21528-2:2017
		Horizontal method for the detection and enumeration of *Listeria monocytogenes* and of *Listeria spp*. - Part 1: Detection method		SRPS EN ISO 11290-1:2017
		Horizontal method for the enumeration of coliforms - Colony-count technique		SRPS ISO 4832:2014
		Horizontal method for the detection and enumeration of *Clostridium* spp. - Part 2: Enumeration of Clostridium perfringens by colony-count technique		SRPS EN ISO 15213-2:2023

Location of testings: laboratory (Bečej, Industrijska 3)
Microbiological testings: food, animal feed, water, cosmetics, pharmaceutical preparations, samples from the surface

O.N.	Test object material / product	Type of test and/or measured characteristic (testing technique)	Measurement range/limit of detection/limit of quantification (if applicable)	Reference document
1.	**Food** **Animal feed** **Samples from the surface** *(continuation)*	Horizontal method for the detection and enumeration of Clostridium spp. - Part 3: Detection of Clostridium perfringens		SRPS CEN ISO/TS 15213-3:2024
		Horizontal method for detection and enumeration of *Campylobacter spp*. - Part 1: Detection method		SRPS EN ISO 10272-1:2017 SRPS EN ISO 10272-1:2017/A1:2023 except Anex D, E and F
		Horizontal method for the enumeration of presumptive *Bacillus cereus* - Colony-count technique at 30 °C		SRPS EN ISO 7932:2009
		Horizontal method for the enumeration of coagulase-positive staphylococci (*Staphylococcus aureus* and other species) - Part 3: Detection and MPN technique for low numbers		SRPS EN ISO 6888-3:2009
		Horizontal method for the detection of *Cronobacter spp*.		SRPS EN ISO 22964:2017
		Detection of Salmonella spp (PCR)		GENE-UP® Salmonella 2 (SLM 2) REF 423105 bioMérieux [44)]
2.	**Food** **Animal feed**	Horizontal method for the detection and enumeration of *Listeria monocytogenes* and of *Listeria spp*. - Part 2: Enumeration method		SRPS EN ISO 11290-2:2017
		Horizontal method for the enumeration of coagulase-positive staphylococci (*Staphylococcus aureus* and other species) - Part 1: Method using Baird-Parker agar medium		SRPS EN ISO 6888-1:2021 SRPS EN ISO 6888-1:2021/A1:2023

Location of testings: laboratory (Bečej, Industrijska 3)
Microbiological testings: food, animal feed, water, cosmetics, pharmaceutical preparations, samples from the surface

O.N.	Test object material / product	Type of test and/or measured characteristic (testing technique)	Measurement range/limit of detection/limit of quantification (if applicable)	Reference document
2.	**Food** **Animal feed** *(continuation)*	Horizontal method for the enumeration of beta-glucuronidase-positive *Escherichia coli* – Part 2: Colony-count technique at 44ºC using 5-bromo-4-chloro-3-indolyl beta-D-glucuronide		SRPS ISO 16649-2:2008
		Horizontal method for the enumeration of mesophilic lactic acid bacteria – Colony-count technique at 30ºC		ISO 15214:1998
		Horizontal method for the enumeration of yeasts and moulds – Part 1: Colony count technique in products with water activity greater than 0,95		SRPS ISO 21527-1:2011
		Horizontal method for the enumeration of yeasts and moulds – Part 2: Colony count technique in products with water activity less than or equal to 0,95		SRPS ISO 21527-2:2011
3.	**Food** Fruits and vegetables Products from fruits and vegetables **Samples from the surface**	Detection of norovirus and hepatitis A virus (RT-PCR)		CeeramTOOLS® REF KMG, REF KNVGIGII, REF KHAV, bioMérieux [42)]
4.	**Food** **Samples from the surface**	Detection of *Listeria monocytogenes* and *Listeria spp* (ELFA technique-enzymatic fluorescence)		VIDAS® Listeria Duo (LDUO) REF 30 225 bioMérieux [43)]
5.	**Food** Wine and must	Detection, differentiation and enumeration of yeasts on plate		OIV MA-AS4-01.6.1:2010
		Detection, differentiation and enumeration of molds on plate		
		Detection, differentiation and enumeration of acetic bacteria on plate		
		Detection, differentiation and enumeration of lactic acid bacteria on plate		

Location of testings: laboratory (Bečej, Industrijska 3)
Microbiological testings: food, animal feed, water, cosmetics, pharmaceutical preparations, samples from the surface

O.N.	Test object material / product	Type of test and/or measured characteristic (testing technique)	Measurement range/limit of detection/limit of quantification (if applicable)	Reference document
5.	**Food** *(continuation)* Berries	Horizontal method for determination of Hepatitis A virus and norovirus using real-time RT-PCR - Part 2: Method for detection		SRPS EN ISO 15216-2:2019 SRPS EN ISO 15216-2:2019/Corrigendum I:2021
	Fresh and frozen fruits and vegetables	Detection of *E. coli O157* (including H7) (ELFA technique - enzymatic fluorescence)		VIDAS® UP E. coli O157 (including H7) REF30 122 bioMérieux [41)]
	Fruit juices and related products and their ingredients, soft drinks and fruit syrups Environmental samples from the zone of handling and production of fruit juices and related products	Method for detection and enumeration of spore-forming thermo-acidophilic spoilage bacteria (*Alicyclobacillus spp.*)		IFU Method No.12:2019
6.	**Water** Drinking water	Enumeration of coliform bacteria of fecal origin (MF technique)		Regulation [15)] Annex III, point 2
		Detection of *Proteus species* (MPN technique)		Regulation [15)] Annex III, point 5
		Enumeration of *Clostridium perfringens* - Method using membrane filtration		SRPS EN ISO 14189:2017
	Drinking water Surface water Waste water Groundwater	Detection of *Salmonella spp.*		SRPS EN ISO 19250:2014
		Enumeration of culturable micro-organisms - Colony count by inoculation in a nutrient agar culture medium		SRPS EN ISO 6222:2010
		Detection and enumeration of intestinal enterococci - Part 2: Method by membrane filtration		SRPS EN ISO 7899-2: 2010
		Detection and enumeration of *Pseudomonas aeruginosa* - Method by membrane filtration		SRPS EN ISO 16266:2010

Location of testings: laboratory (Bečej, Industrijska 3)
Microbiological testings: food, animal feed, water, cosmetics, pharmaceutical preparations, samples from the surface

O.N.	Test object material / product	Type of test and/or measured characteristic (testing technique)	Measurement range/limit of detection/limit of quantification (if applicable)	Reference document
6.	**Water** *(continuation)* Drinking water Water for human use (hot and cold water, water for washing) Purified water for bath (pool water) Industrial water (process and cooling water)	Detection and enumeration of the spores of sulfite-reducing anaerobes (clostridia) - Part 2: Method by membrane filtration		SRPS EN 26461-2:2009
		Enumeration of *Legionella*		SRPS EN ISO 11731: 2017
	Drinking water Disinfected pool water Purified water	Enumeration of *Escherichia coli* and coliform bacteria - Part 1: Membrane filtration method for waters with low bacterial background flora		SRPS EN ISO 9308-1:2017 SRPS EN ISO 9308-1:2017/ A1:2017
7.	**Cosmetics**	Enumeration and detection of aerobic mesophilic bacteria		SRPS EN ISO 21149:2017 SRPS EN ISO 21149:2017 /A1:2022
		Detection of *Escherichia coli*		SRPS EN ISO 21150:2016 SRPS EN ISO 21150:2016/A1:2022
		Detection of *Pseudomonas aeruginosa*		SRPS EN ISO 22717:2016 SRPS EN ISO 22717:2016/A1:2022
		Detection of *Staphylococcus aureus*		SRPS EN ISO 22718:2016 SRPS EN ISO 22718:2016/A1:2022
		Detection of *Candida albicans*		SRPS EN ISO 18416:2016 SRPS EN ISO 18416:2016 /A1:2022
		Enumeration of yeast and mould		SRPS EN ISO 16212:2017 SRPS EN ISO 16212:2017/A1 1:2022

Location of testings: laboratory (Bečej, Industrijska 3)
Microbiological testings: food, animal feed, water, cosmetics, pharmaceutical preparations, samples from the surface

O.N.	Test object material / product	Type of test and/or measured characteristic (testing technique)	Measurement range/limit of detection/limit of quantification (if applicable)	Reference document
7.	**Cosmetics** *(continuation)*	Evaluation of the antimicrobial protection of a cosmetic product (Challenge test)		SRPS EN ISO 11930:2019 SRPS EN ISO 11930:2019/A1:2022
8.	**Pharmaceutical preparations**	Determination of the total number of aerobic viable microorganisms (quantitative method)		Ph Jug V, Volume 1, point 2.6.12
		Enumeration of total yeasts and molds (quantitative method)		Ph Jug V, Volume 1, point 2.6.12
		Detection and enumeration of total enterobacteria (qualitative and quantitative method)		Ph Jug V, Volume 1, point 2.6.13
		Detection and enumeration of *Escherichia coli* (qualititative and quantitative method)		Ph Jug V, Volume 1, point 2.6.13
		Detection of *Salmonella species* (qualitative method)		Ph Jug V, Volume 1, point 2.6.13
		Detection of *Pseudomonas aeruginosa* (qualitative method)		Ph Jug V, Volume 1, point 2.6.13
		Detection of *Staphylococcus aureus* (qualitative method)		Ph Jug V, Volume 1, point 2.6.13

Sampling

O. N.	Object to sampling material / product	Type of sampling	Reference document
1.	Foodstuffs and products for general use	Sampling for: microbiological, physical and chemical analyses	Instruction [21)]
2.	Protein materials for food industry	Sampling for: physical-chemical analyses	Regulation [1)] article 7-16
3.	Vegetable oil and fat	Sampling for: biological, biochemical analyses, microbiological analyses, physical-chemical analyses	SRPS EN ISO 5555:2008
4.	Oilseeds	Sampling for: biological, biochemical analyses, physical-chemical analyses	SRPS EN ISO 21294:2017

Sampling			
O. N.	**Object to sampling material / product**	**Type of sampling**	**Reference document**
5.	Oilseed residues	Sampling for: biological, biochemical analyses microbiological analyses physical-chemical analyses	SRPS ISO 5500:2001
6.	Animal feed	Sampling for: biological, biochemical analyses microbiological analyses physico-chemical analyses	Regulation [2)] article 6-28
7.	Drinking water	Sampling for: microbiological analyses physical-chemical analyses	Regulation [15)] article 2, 3, 5, attachment II
8.	Meat – carcass	Swab sampling from carcass for microbiological analysis	SRPS EN ISO 17604:2016 point 8.3
9.	Alcoholic drinks	Sampling for: physical-chemical analyses	Regulation [8)] article 7-15
10.	Swabs – surface in contact with food	Horizontal methods for surface sampling for: microbiological analyses	SRPS EN ISO 18593:2018 (sampling by stick swab or sponge method)
11.	Food of plant origin, food of animal origin except meat	Sampling of food for testing the residues of plant protection products in food	Regulation [45)] Article 3 and Article 4, except Tables 2 and 3
12.	Food and animal feed	Sampling of food for the purposes of microbiological testing of food and animal feed	SRPS CEN ISO/TS 17728:2016

Legend:

Reference document	**Reference/Test method**
Regulation [1)]	Official Gazette SFRY 41/1985, Regulation on the methods of sampling and carrying out chemical and physical analyses of protein materials for food industry
Regulation [2)]	Official Gazette SFRY 15/1987, Regulation on the methods of sampling and carrying out physical, chemical and microbiological analyses of animal feed
Regulation [3)]	Official Gazette SFRY 74/1988 Regulation on the methods of chemical and physical analyses of quality control of grains, milling and bakery products, pasta and quick frozen dough products
Regulation [4)]	Official Gazette SFRY 41/1987 Regulation on the methods of sampling and carrying out chemical and physical analyses of cocoa beans, cocoa products, products similar to chocolate, candy products, creamy products (spreads), cookies and biscuits and products similar to cookies and biscuits
Regulation [6)]	Official Gazette SFRY 29/1983 Regulation on the methods of sampling and carrying out chemical and physical analyses of quality of fruit and vegetable products
Handbook [7)]	Standard methods for the examination of hygienic quality: Drinking water, Federal Institute for Health Protection, Belgrade, 1990
Regulation [8)]	Official Gazette SFRY 70/1987 Regulation on the methods of sampling and carrying out chemical and physical analyses of alcoholic drinks

Reference document	Reference/Test method
Regulation [9)]	Official Gazette SFRY 32/1983 Regulation on the methods of sampling and carrying out chemical and physical analyses of milk and dairy products
Regulation [10)]	Official Gazette SFRY 4/1985 and 7/1992 Regulation on quality of honey and honey products and methods of quality control of honey and honey products
Regulation [11)]	Official Gazette SFRY 72/1987 Regulation on methods of analysis of quality of eggs and egg products
Regulation [12)]	Official Gazette SFRY 46/83, Regulation on the methods for the determination of pH value and amounts of toxic metals and non-metals in goods for personal hygiene, cosmetics for face and body and to determine the microbiological safety.
Handbook [13)]	"Analysis of wine - Practicum in wine technology," Jazić, Ružić,1982
Regulation [15)]	Official Gazette of the SFRY 33/1987 Regulation on the method of sampling and methods for laboratory analysis of drinking water
Regulation [17)]	Official Gazette of SFRY 26/1989 Regulations on sampling methods and methods of chemical and physical analysis for quality control of vinegar and dilute acetic acid
ISI [18)]	ISI – Laboratory Methods, International Starch Institute, Science Park Aarhus 1999, Denmark
Megazyme assay procedure T-AMZHY [19)]	Diastaze activity (α-amylase) in honey, Megazyme assay procedure T-AMZHY
GEA Niro [20)] Analytical Method A 18b	GEA Niro Denmark, Total Lactose in Milk and Whey Powders by Gravimetric, Analytical Method A 18b; jun 2006.
Instruction [21)]	Official Gazette SFRY 60/1978 Instructions on the methods of sampling foodstuffs and products for general use for analyses and superanalyses
Ridascreen Gliadin [22)] R7001, R-Biopharm AG	AOAC Research Institute-Certificate of Peformance Tested Status, No. 120601
Handbook [23)]	Water Determination by Karl Fischer Titration, Peter Bruttel, Regina Schlink, Herisau 2003
OIV	Compendium of International Methods of analysis
IFU	International Federation of Fruit Juice Producers
AOAC	Official Methods of Analysis of AOAC
AACC	American Association of Cereal Chemists
AOCS	American Oil Chemists Society
MEBAK	MEBAK –Methods of Analysis 1, translated by Dr. S. Gaćeša, Novi Sad, 2000
EBC	European Brewery Convention
ICUMSA	International Commission for Uniform Methods of sugar Analysis
NMKL	Nordic Committee on Food Analysis
EPA	US Environmental Protection Agency
IHC	International Honey Commission
Veratox for Peanut Allergen (8430) [24)] Neogen	AOAC Research Institute-Certificate of Peformance Tested Status, No. 030403
Veratox for Hazelnut Allergen (8420) [25)] Neogen	Instructions for quantitative test Veratox for Hazelnut Allergen, product No.8420, NEOGEN CORPORATION
Veratox for Soy Allergen (8410) [26)] Neogen	Instructions for quantitative test Veratox for Soy Allergen, product No.8410, NEOGEN CORPORATION

Reference document	Reference/Test method
Veratox for Total Milk (8470) [35] Neogen	Instructions for quantitative test Veratox for Total Milk, product No.8470, NEOGEN CORPORATION
Veratox for Egg Allergen (8450) [36] Neogen	Instructions for quantitative test Veratox for Egg Allergen, product No.8450, NEOGEN CORPORATION
Ridascreen Gliadin competitive [37] R7021, R-Biopharm AG	AOAC-OMA (2015-05), Validated by the AACCI (AACCI 38-55.01)
Ridascreen Aflatoxin M1 R1121 [38] RBiopharm AG	Instructions for enzyme immunoassay for the quantitative determination of Aflatoxin M1 Art No. R1121
QuPPe-Method[39]	Quick Method for the Analysis of Highly Polar Pesticides in Food Involving Extraction with Acidified Methanol and LC- or IC-MS/MS Measurement I. Food of Plant Origin (QuPPe-PO-Method), M 1.4 PerChloPhos, Version 12.3, 30.12.2024.
Ridascreen Fast Senf/Mustard [40] R6152, R-Biopharm AG	Instructions for enzyme immunoassay for the quantitative determination of mustard/senf No. R6152
VIDAS® UP E. coli O157 (including H7) REF30 122 bioMérieux [41]	Method specified by the manufacturer: VIDAS® UP *E.coli* O157 (including H7) REF 30 122 bioMérieux
CeeramTOOLS® REF KMG, REF KNVGIGII, REF KHAV, bioMérieux [42]	Method specified by the manufacturer: CeeramTOOLS®Mengo Extraction Control REF KMG, CeeramTOOLS® noroGI-GII@ceeramTools™, REF KNVGIGII CeeramTOOLS® hepatitisA@ceeramTools™ REF KHAV bioMérieux
VIDAS® Listeria Duo (LDUO) REF 30 225 bioMérieux [43]	Method specified by the manufacturer: VIDAS® Listeria Duo (LDUO) REF 30 225 bioMérieux
GENE-UP® *Salmonella* 2 (SLM 2) REF 423105 bioMérieux [44]	Method specified by the manufacturer: GENE-UP® *Salmonella* 2 (SLM 2) REF 423105 bioMérieux
Regulation [45]	Official Gazette of RS 110/2012 Regulation on food sampling and testing methods to determine plant protection residues in food, Article 3 and Article 4, except Tables 2 and 3
Ridascreen Fast Sesame[46] R7202, R-Biopharm AG	Instructions for enzyme immunoassay for the quantitative analysis of sesame, No. R7202
VM/ MET 719	VM / MET 719 is a calculation method based on: Regulation on the declaration and advertising of food (Official Gazette RS, 19/2017, 16/2018, 17/2020, 118/2020, 17/2022, 23/2022, 30/2022 and 61/2024-other regulation), Guidelines on nutrition labelling,CAC/ GL 2-1985, rev. 1993 & 2011, Food energy-methods of analysis and conversion factors, FAO Food and nutrition paper 77, Rome, 2003
VM/MET 739	VM/MET 739 is a method based on CXS 70-1981, revision 1995, ammendments 2011, 2013, 2016 and 2018 Standard for canned tuna and bonito, Codex Stan 165-1989, revision 1995, ammendments 2011, 2013, 2014 Standard for quick frozen blocks of fich fillet, minced fich flesh and mixturs of fillets and minced fich flesh, AOAC 968.30 Canned Vegetables Drained Weight Procedure, 2011
VM/ MET 882	VM / MET 882 is extended standard method EPA 6020A:2007 Inductively coupled plasma mass spectrometry which has been modified in test object (field of application)

Reference document	Reference/Test method
VM/ MET 873	VM / MET 873 is extended standard method SRPS CR 13695-1/2008 Packaging - Requirements for measuring and verifying the four heavy metals and other dangerous substances present in packaging and their release into the environment - Part 1: Requirements for measuring and verifying the four heavy metals present in packaging which has been modified in test parameters
VM/ MET 876	VM / MET 876 is extended standard method: SRPS EN 13130-1:2008 Materials and articles in contact with foodstuffs - Plastics substances subject to limitation - Part 1: Guide to test methods for the specific migration of substances from plastics to foods and food simulants and the determination of substances in plastics and the selection of conditions of exposure to food simulants which has been modified in preparation of the sample (model solution: ultra pure water, 3% CH_3COOH, 10% C_2H_5OH, 50% C_2H_5OH and/or 95% C_2H_5OH and/or model solution similar to saliva; 24h, 5 and/or 10 days; on temperature 20 ± 2^0C and/or 40 ± 2^0C)
VM/ MET 880	VM/ MET 880 is extended standard method SRPS EN 1186-3:2022 Materials and articles in contact with foodstuffs - Plastics - Part 3: Test methods for overall migration int evaporable simulants which has been modified in preparation of the sample (model solution: ultra pure water, 3% CH_3COOH, 10% C_2H_5OH, 50% C_2H_5OH, 95% C_2H_5OH and/or model solution similar to saliva ; 24h, 5 and/or 10 days; on temperature 20 ± 2^0C and/or 40 ± 2^0C)
VM/ MET 926	VM / MET 926 is extended standard method SRPS EN 12821:2012 Foodstuffs - Determination of vitamin D by high performance liquid chromatography - Measurement of cholecalciferol (D3) or ergocalciferol (D2) which has been modified in test object (field of application) and sample preparation
VM/ MET 927	VM / MET 927 is extended standard method SRPS EN 14122:2014 Foodstuffs - Determination of vitamin B1 by HPLC which has been modified in test object (field of application)
VM/ MET 928	VM / MET 928 is extended standard method SRPS EN 14152:2014 Foodstuffs - Foodstuffs - Determination of vitamin B2 by HPLC, which has been modified in test object (field of application)
VM/ MET 929	VM / MET 929 is extended standard method SRPS EN 14164:2014 Foodstuffs - Determination of vitamin B6 by HPLC, which has been modified in test object (field of application)
VM/ MET 930	VM / MET 930 is extended standard method SRPS EN 14130:2008 Foodstuffs - Determination of vitamin C by HPLC (withdrawn), which has been modified in sample preparation
VM/ MET 936	VM / MET 936 is method based on Screening 36 Veterinary Drugs in Animal Origin Food by LC/MS/MS Combined with Modified QuEChERS Method, Application Note, Agilent Technologies, which has been modified in test object (field of application)
VM/ MET 937	VM / MET 937 is extended standard method SRPS EN ISO 13903: 2011 Animal feeding stuffs - Determination of amino acids content which has been modified in test object (field of application) and in the used equipment (IC with electrochemical detector)
VM/ MET 938	VM / MET 938 is extended standard method SRPS ISO 11292:2020 Instant coffee — Determination of free and total carbohydrate contents — Method using high-performance anion-exchange chromatography, which has been modified in test object (field of application)
VM/ MET 944	VM / MET 944 is extended standard method SRPS EN 12014-2:2018: Foodstuffs - Determination of nitrate and/or nitrite content - Part 2: HPLC/IC method for the determination of nitrate content of vegetable products, which has been modified in test object (field of application) and sample preparation

Reference document	Reference/Test method
VM/ MET 945	VM / MET 945 is extended standard method LGC/GC/2007/005 Analysis of Illegal Dyes in Chilli Powder by LC-UV, which has been modified in test object (field of application)
VM/ MET 946	VM / MET 946 is extended standard method SRPS EN ISO 10304-1:2009 Water quality. Determination of dissolved anions by liquid chromatography of ions. Determination of bromide, chloride, fluoride, nitrate, nitrite, phosphate and sulfate which has been modified in test object (field of application)
VM/ MET 948	VM / MET 948 is extended standard method SRPS ISO 20481:2014 Coffee and coffee products - Determination of the caffeine content using high performance liquid chromatography (HPLC) - Reference method which has been modified in test object (field of application) and sample preparation
VM/ MET 954	VM / MET 954 is extended standard method NMKL 124:2007 Bensoic acid, sorbic acid and p-hydroxbenzoic acid esters. Liquid chromatographic determination in foods which has been modified in test object (field of application)
VM/ MET 960	VM / MET 960 (Determination of the stable hydrogen isotope ratio (D/H)) is extended standard method SRPS ENV 12142:2008 Fruit and vegetable juices - Determination of the stable hydrogen isotope ratio (2H/1H) of water from fruit juices - Method using isotope ratio mass spectrometry (withdrawn), which has been modified in test object (field of application) and sample preparation VM / MET 960 (Determination of the stable carbon isotope ratio (^{13}C / ^{12}C)) is extended standard method OIV-MA-AS312-06:R2009 Determination by isotope ratio mass spectrometry ^{13}C / ^{12}C of wine ethanol or that throu the fermentation of musts, concentrated musts or grape sugar, which has been modified in test object (field of application) VM / MET 960 (Determination of the stable oxygen isotope ratio (^{18}O / ^{16}O)) is extended standard method OIV-MA-AS2-12:R2009 Method for $^{18}O/^{16}O$ isotope ratio determination of water in wine and must, which has been modified in test object (field of application), sample preparation and used equipment
VM/MET 1000	VM / MET 1000 is method based on: Ph EU 6.0, volume 1: 2008 Methods 2.2.32. page 53, regulation on Food Additives (Official Gazette RS 53/2018), “Analyzes of Foods”, Trajković J., Mirić M., Baras J., Šiler S., Faculty of Technology and Metallurgy, University of Belgrade, 1983, page 13-16
VM/MET 1008	VM / MET 1008 is a method based on Ph EU 6.0, volume 1: 2008 Method 2.2.5.and SRPS EN ISO 6883: 2017 Animal and vegetable fats and oils - Determination of conventional mass per volume (“litre weight in air”)
VM/MET 1009	VM / MET 1009 is a method based on Ph EU 6.0, volume 1: 2008 Method 2.2.6. and SRPS EN ISO 6320: 2017 Animal and vegetable fats and oils - Determination of refractive index
VM/ MET 1069	VM / MET 1069 is method Bioanal Anal Chem (2004) 378:804-810, Improved determination of taurine by high-perfomance anion-exchange chromatography with integrated pulsed amperometric detection (HPAEC-IPAD)
VM/ MET 1088	VM/ MET 1088 is extended standard method SRPS ISO 11292:2020 Instant coffee — Determination of free and total carbohydrate contents — Method using high-performance anion-exchange chromatography which has been modified in test object (field of application)
VM/ MET 1116	VM / MET 1116 is extended standard method SRPS EN 15662:2018 Multimethod for the determination of pesticide residues using GC- and LC-based analysis following acetonitrile extraction/partitioning and clean-up by dispersive SPE - Modular QuEChERS-method which has been modified in test object (field of application)

Reference document	Reference/Test method
VM/ MET 1156	VM/ MET 1156 is extended standard method SRPS EN 15662:2018 Multimethod for the determination of pesticide residues using GC- and LC-based analysis following acetonitrile extraction/partitioning and clean-up by dispersive SPE - Modular QuEChERS-method, which has been modified in test object (field of application)
VM/ MET 1158	VM / MET 1158 is extended standard method SRPS EN 15662:2018 Foods of plant origin - Multimethod for the determination of pesticide residues using GC- and LC-based analysis following acetonitrile extraction/partitioning and clean-up by dispersive SPE - Modular QuEChERS-method, which has been modified in test object (field of application) and sample preparation
VM/ MET 1211	VM/MET 1211 is an extended standard method SRPS EN 16618:2015 Food analysis – Determination of acrylamide in food by liquid chromatography tandem mass spectrometry (LC-ESI-MS/MS) which has been modified in test object (field of application)
VM/MET 1226	VM/MET 1226 is a modified standard method AOAC 990.28: 1994 Sulfites in foods which has been modified in the range of application.
VM/MET 1227	VM/MET 1227 is a method based on Ph EU 6.0, volume 1: 2008 Method 2.2.5. and the instructions of the manufacturer of Gibertini - Densimat
VM/MET 1254	VM/MET 1254 is a method specified by the manufacturer Hanna Instruments for the photometer HI 96711C-Free and Total Chlorine ISM
VM/MET 1318	VM/MET 1318 is a method specified by the manufacturer and based on the manufacturer's instructions: Standard operating procedure: ETHOS X for total fat determination, Milestone Rev. 1/2020.
VM/MET 1332	VM/MET 1332 is a method based on Test method for the determination of NDMA and NDEA by LC-MS/MS in Sartan containing film coated, modified in part of the application area
VM/MET 1334	VM/MET 1334 is a method based on the New Approach of QuEChERS and GC-MS Triple-Quadrupole for the Determination of Ethyl Carbamate Content in Brazilian cachaças, modified in part of the application area
VM/MET 1350	VM/MET 1350 is a modified standard method AOCS Ba 6a-05:2005 Crude fiber analysis in feeds by filter bag technique which has been modified in the part of application area.

28) List of PCB - VM/MET 1156	
Ordinal number	**PCB**
1.	2,4,4'-trihlorobifenil (PCB 28)
2.	2,2',5,5'- tetrahlorobifenil (PCB 52)
3.	2,2',4,5,5'- pentahlorobifenil (PCB 101)
4.	2,2',3,4,4',5- heksahlorobifenil (PCB 138)
5.	2,2',4,4',5,5'- heksahlorobifenil (PCB 153)
6.	2,2',3,4,4',5,5'- heptahlorobifenil (PCB 180)

29) List of PAH - VM/MET 1116	
Ordinal number	**PAH**
1.	Acenaftilen
2.	Fluoren
3.	Fenantren
4.	Antracen
5.	Piren
6.	Benzo(a)antracen**

7.	Krizen**
8.	Benzo(b)fluoranten**
9.	Benzo(k)fluoranten
10.	Benzo(a)piren**
11.	Indeno(1,2,3-cd)piren
12.	Dibenzo(a,h)antracen
13.	Benzo(g,h,i)perilen

**** LOQ shown in scope of accreditation**

30) List of sulfonamides and antibiotics - VM/MET 936	
Ordinal number	**Sulfonamides and antibiotics**
1.	Sulfathiazole
2.	Sulfadimethoxine
3.	Sulfadimidin
4.	Sulfapyridine
5.	Sulfaquinoxaline
6.	Chloramphenicol
7.	Penicillin G potassium salt
8.	Tetracycline hydrochloride
9.	Oxytetracycline hydrohloride
10.	Chlortetracycline hydrochloride
11.	Bacitracin
12.	Erythromycin
13.	Tylosin-phosphate
14.	Streptomicin

31) List of amino acids - VM/MET 937	
Ordinal number	**Amino acid**
1.	L-alanine
2.	L-arginine
3.	L-cystine
4.	L-glutamic acid
5.	glycine
6.	L-histidine
7.	L-isoleucine
8.	L-leucine
9.	L-lysine
10.	L-methionine
11.	L-phenylalanine
12.	L-proline
13.	L-serine
14.	L-threonine
15.	L-tyrosine
16.	L-valine
17.	L-aspartic acid

32) List of organochlorine pesticides - VM/MET 1158	
Ordinal	**Pesticide**

number	
1.	alpha-BHC
2.	beta-BHC
3.	gamma-BHC
4.	delta-BHC
5.	Heptachlor
6.	Aldrin
7.	Heptachlorepoxide
8.	gamma- Chlordane
9.	alpha-Chlordane
10.	Endosulfan I
11.	4.4' – DDE
12.	Dieldrin
13.	Endrin
14.	4.4' – DDD
15.	Endosulfan II
16.	4.4' – DDT
17.	Endrinaldehyde
18.	Endosulfan-sulfate
19.	Methoxychlor
20.	Endrin ketone

This Scope of accreditation is valid only with Accreditation Certificate No **01-018**

Accreditation expiry date: 23.06.2027.

DIRECTOR

Dragan Pušara, Msc

Note: This Scope of accreditation in English is issued on 05.08.2025. on CAB`s request.