Potvrda o akreditaciji
Accreditation Certificate

Ovime se utvrđuje da je
This is to recognize that

BIOINSTITUT d.o.o.
Laboratorijska djelatnost
R. Steinera 7, HR-40000 Čakovec

osposobljen prema zahtjevima norme
is competent according to
HRN EN ISO/IEC 17025:2017
(ISO/IEC 17025:2017;
EN ISO/IEC 17025:2017)
za/to carry out

Ispitivanje hrane, hrane za životinje, vina, voda, otpada, tla, mulja, sedimenta, uzoraka okoliša iz primarne proizvodnje, mikrobiološke čistoće površina, krutih oporabljenih goriva, naftnih proizvoda i predmeta opće uporabe
Mikrobiološka ispitivanja u svrhu dijagnostike bolesti životinja
Uzorkovanje voda, otpada, mulja i sedimenta
Analysis of food, animal feeding stuffs, wine, waters, waste, soil, environmental samples from the primary production stage, microbiological cleanliness of facilities, solid recovered fuels, petroleum product and items of general use
Microbiological testing for diagnostics of animal diseases
Sampling of waters, waste, sludge and sediment

u području opisanom u prilogu koji je sastavni dio ove potvrde o akreditaciji.
for the scope described in the annex which is the constituent part of this accreditation certificate.

Br./No.: 1073
Klasa/Ref.No.: 383-03/19-30/035
Urbroj/Id.No.: 569-02/11-20-53
Zagreb, 2020-05-22

Akreditacija ističe·Accreditation expiry: 2025-05-21
Prva akreditacija·Initial accreditation: 2005-04-21

HAA je potpisnica multilateralnog sporazuma s Europskom organizacijom za akreditaciju (EA)
HAA is a signatory of the European co-operation for Accreditation (EA) Multilateral Agreement

v. d. ravnateljica:
Acting Director General:
Ankica Barišić, dipl. ing.

HAA **Hrvatska akreditacijska agencija**
Croatian Accreditation Agency

HAA Hrvatska akreditacijska agencija
Croatian Accreditation Agency

PRILOG POTVRDI O AKREDITACIJI br: 1073
Annex to Accreditation Certificate Number:

Klasa/*Ref. No.*: 383-02/19-30/035
Urbroj/*Id. No.*: 569-02/11-21-50
Datum izdanja priloga/*Annex Issued on*: 2021-11-05

Zamjenjuje prilog/*Replaces Annex:*
Klasa/*Ref. No.*: 383-02/19-30/035
Urbroj/*Id. No.*: 569-02/11-21-45
Datum izdanja priloga/*Annex Issued on*: 2021-10-29

Norma: HRN EN ISO/IEC 17025:2017
Standard: (ISO/IEC 17025:2017; EN ISO/IEC 17025:2017)

Akreditacija istječe: 2025-05-21
Accreditation expiry:
Prva akreditacija: 2005-04-21
Initial accreditation:

Akreditirani laboratorij
Accredited Laboratory

BIOINSTITUT d.o.o.
Laboratorijska djelatnost
Dr. Rudolfa Steinera 7, HR-40000 Čakovec

Područje akreditacije:
Scope of Accreditation:

Ispitivanje hrane, hrane za životinje, vina, voda, otpada, tla, mulja, sedimenta, uzoraka okoliša iz primarne proizvodnje, mikrobiološke čistoće površina, krutih oporabljenih goriva, naftnih proizvoda i predmeta opće uporabe
Mikrobiološka ispitivanja u svrhu dijagnostike bolesti životinja
Uzorkovanje voda, tla, otpada, mulja i sedimenta

Analysis of food, animal feeding stuffs, wine, waters, waste, soil, environmental samples from the primary production stage, microbiological cleanliness of facilities, solid recovered fuels, petroleum product and items of general use
Microbiological testing for diagnostics of animal diseases
Sampling of waters, soil, waste, sludge and sediment

Važeće izdanje Priloga dostupno je na web adresi: www.akreditacija.hr/
Valid issue of the Annex is available at the web address: www.akreditacija.hr

Ravnateljica:
Director General:
mr. sc. Mirela Zečević

REPUBLIKA HRVATSKA HRVATSKA AKREDITACIJSKA AGENCIJA 2 ZAGREB

PODRUČJE AKREDITACIJE/ *SCOPE OF ACCREDITATION*

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon**/Range*	**Metoda ispitivanja** *Test method*
1.	Hrana *Food*	Određivanje sadržaja olova i kadmija *Determination of lead and cadmium*	HRN EN 14084:2005 *(EN 14084:2003)*
2.		Određivanje sadržaja žive *Determination of mercury*	Vlastita metoda *In-house method* SOP-LKH-01-28/07a VII. izdanje / *edition* (2021-05-13) HRN EN ISO 12846:2012 *(ISO 12846:2012; EN ISO 12846:2012)* modif.: mikrovalna razgradnja *modif.: microwave digestion*
3.		Određivanje sadržaja arsena *Determination of arsenic in foodstuffs*	Vlastita metoda *In-house method* SOP-LKH-01-06;8-28/07b VI. izdanje/ *edition* (2021-05-14)
4.		Metoda za brojenje Bacillus cereus - postupak brojenja kolonija *Method for enumeration of Bacillus cereus - Colony count technique*	HRN EN ISO 7932:2005 + A1:2020 *(ISO 7932:2004/Amd 1:2020, ispravljena verzija 2020-08; EN ISO 7932:2004/A1:2020)*
		Određivanje šećera u hrani HPLC-RID metodom (pojedinačni i ukupni), pojedinačni šećeri (fruktoza, glukoza, saharoza, maltoza, laktoza) *Determination of sugars in food - liquid chromatographic method with RI detector (fructose, glucose,sucrose, maltose, lactose)*	Vlastita metoda: SOP-LKH-1-28/174 kromatografija/ detektor indeksa refrakcije HPLC-RID II. izdanje / *edition* (2019-09-04)

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon**/Range*	**Metoda ispitivanja** *Test method*
6.	Hrana *Food*	Određivanje policikličkih aromatskih spojeva (PAH) metodom GC-MS/MS: (*naftalen; acenaftilen; acenaften; fluoren; fenantren; antracen; fluoranten; piren; benzo[a]antracen; krizen; benzo[b]fluoranten; benzo[k]fluoranten;benzo[a]piren; indeno[1,2,3-c,d]piren; dibenzo[a,h]antracen; benzo[g,h,i]perilen*) *Determination of polycyclic aromatic hydrocarbons (PAH) using GC-MS/MS technique (Naphthalene; Acenapthylen; Acenaphthene; Fluorene; Phenanthrene; Pyrene, Chrysene, Benzanthracene, Benzo[b]fluoranhtene; Benzo[k]fluoranhtene; benzo[a]pyrene; Indeno[1,2,3-cd]pyrene; Dibenzo[a,h]anthracene; Benzo[g,h,i]perylene)*	Vlastita metoda *In-house method* SOP-LKH-1-28/65 VIII. izdanje / *edition* *(2020-09-21)*
7.		Određivanje konzervansa, sladila i kofeina u hrani *Determination of preservatives, sweeteners and caffeine in food*	HRN EN 12856:2000 *(EN 12856:1999)*
8.		Određivanje akrilamida LC-MS/MS tehnikom *Determination of acrylamide LC-MS/MS technique*	Vlastita metoda *In-house method* SOP-LKH-1-28/188 III. izdanje / *edition* (*2019-08-26*)
9.		Određivanje 3-monoklorpropan-1,2-diola GC-MS tehnikom *Determination of 3-monochlorpropane-1,2-diol by GC-MS technique*	HRN EN 14573:2005 *(EN 14573:2004)*
10.		Određivanje sadržaja žive metodom FIMS *Determination of mercury by FIMS method*	Vlastita metoda *In-house method* SOP-LKH-1-28/7a-1 I. izdanje / *edition* (*2021-03-16*) modificirana / *modified* HRN EN ISO 12846:2012 *(ISO 12846:2012; EN ISO 12846:2012)*

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon/****Range*	**Metoda ispitivanja** *Test method*
11.	Hrana *Food*	Određivanje sadržaja arsena, olova i kadmija metodom ICP- MS *Determination of arsenic, cadmium and lead by ICP-MS method*	Vlastita metoda *In-house method* SOP-LKH-1-28/6d II. izdanje / *edition* (*2021-06-15*) modificirana / *modified* HRN EN 17053:2018 *(EN 17053:2018)*
12.	Voće i povrće s visokim udjelom vode *Fruits and vegetables – high water content*	Određivanje matrina u hrani biljnog podrijetla metodom tekućinske kromatografije s masenim spektrometrom LC-MS/MS *Determination of Matrine by Liquid chromatography-mass spectrometry (LC-MS/MS)*	Vlastita metoda *In-house method* SOP-LKH-41/229 II. izdanje / *edition* (2021-06-10)
13.		Određivanje maleinskog hidrazida (Maleic hydrazide) u hrani biljnog podrijetla LC-MS/MS tehnikom *Determination of Maleic hydrazide by Liquid chromatography-mass spectrometry (LC-MS/MS)*	Vlastita metoda *In-house method* SOP-LKH-41/234 I. izdanje / *edition* (*2021-04-20*)
14.	Nemasna hrana *Non fatty foods*	Određivanje klormekvata i mepikvata LC-MS/MS tehnikom *Determination of chlormequat and mepiquat LC-MS/MS technique*	HRN EN 15055:2007 *(EN 15055:2006)*
15.	Hrana, životinjske i biljne masti i ulja *Food, animal and vegetable fats and oils*	Određivanje metilnih estera masnih kiselina plinskom kromatografijom *Gas chromatography of fatty acids methyl esters*	HRN EN ISO 12966-2:2017 (*ISO 12966-2:2017; EN ISO 12966-2:2017*)
16.	Životinjske i biljne masti i ulja *Animal and vegetable fats and oils*	Određivanje kiselinskog broja i kiselosti *Determination of acid value and acidity*	HRN EN ISO 660:2020 (*ISO 660:2020; EN ISO 660:2020*)
17.		Određivanje peroksidnog broja *Determination of peroxide value*	HRN EN ISO 3960:2017 (*ISO 3960:2017, EN ISO 3960:2017*)
18.	Hrana i hrana za životinje *Food and animal feeding stuffs*	Određivanje sadržaja dušika Kjeldahlovom metodom *Determination of nitrogen by the Kjeldahl method*	HRN ISO 1871:2017 *(ISO 1871:2009)*

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon**/Range*	**Metoda ispitivanja** *Test method*
19.	Hrana i hrana za životinje *Food and animal feeding stuffs*	Određivanje vlakana *Determination of fibre*	Vlastita metoda *In-house method* SOP-LKH-01-28;36/30 II. izdanje/*edition* (2019-12-04)
20.		Određivanje sadržaja natrija i kalcija u hrani i stočnoj hrani optičkom emisijskom spektrometrijom induktivno vezane plazme (ICP-OES) *Determination of sodium and calcium content in food and animal feeding stuffs by inductively coupled plasma optical emission (ICP-OES)*	HRN EN ISO 11885:2010 *(ISO 11885:2007; EN ISO 11885:2009)*
21.	Hrana i hrana za životinje (kruti uzorci) *Food and animal feeding stuffs (solid samples)*	Određivanje sadržaja ukupne masti *Determination of total fat content*	Vlastita metoda *In-house method* SOP-LKH-1-28;36/231 II. izdanje (2021-06-16)
22.	Hrana za životinje Meso i mesni proizvodi *Animal feeding stuffs Meat and meat products*	Određivanje masti, vlage i proteina NIR spektrofotometrijom *Determination of fat, moisture and protein with NIR Spectrophotometry*	AOAC, Method 2007.04
23.	Hrana životinjskog podrijetla (meso i proizvodi od mesa Mlijeko i mliječni proizvodi, sladoled i puding, jaja) *Food of animal origin (meat and meat products Milk and milk products, icecream and pudding, eggs)*	Određivanje ostataka pesticida u hrani životinjskog podrijetla GC-MS/MS tehnikom (kloroneb, pentaklorbenzen (PeCB), alfa-BHC (alfa-HCH), heklsaklorbenzen (HCB), pentakloroanisol, beta-BHC (beta-HCH), gama-BHC (gama-HCH), delta-BHC (delta-HCH), endosulfan eter, heptaklor, pentaklorotioanisol, aldrin, 4,4-diklorobenzofenon, fenson, izodrin, heptaklor epoksid (izomer B), klorbenzid, trans-klordan, 2,4-DDE (o,p-DDE), endosulfan I (endosulfan alfa), cis-klordane, trans-nonaklor, klorfenson (Ovex), dieldrin, 4,4-DDE (p,p-DDE), 2,4-DDD (o,p-DDD), endrin, endosulfan II (endosulfan beta), 4,4-DDD (p,p-DDD), 2,4-DDT (o,p-DDT), cis-nonaklor, endrin aldehid, 4,4-methoksiklor olefin,	Vlastita metoda *In-house method* SOP-LKH-1-2,16/222 IV. izdanje/ *edition* (2021-06-15)

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon**/Range*	**Metoda ispitivanja** *Test method*
23.	Hrana životinjskog podrijetla (meso i proizvodi od mesa Mlijeko i mliječni proizvodi, sladoled i puding, jaja) *Food of animal origin (meat and meat products Milk and milk products, icecream and pudding, eggs)*	endosulfan sulfat, 4,4-DDT (p,p-DDT), 2,4-metoksiklor, endrin keton, tetradifon, mireks, bifentrin, klorpirifos, klorpirifos metil, cipermetrin, deltametrin, diazinon, famoksadon, fenvalerat, indoksakarb, metoksiklor, paration, permetrin, pirimifos metil, fention, fention sulfoksid, fention sulfon, azinfos etil, oksiklordan, klorfenvinfos, klorobenzilat, ciflutrin, malation, metidation, lambda cihalotrin, paration metil, pendimetalin, profenofos, pirazofos, kvintozen, teknazen, fosmet, foksim, triazofos, resmetrin, vinklozolin, fipronil) *Determination of pesticides in food of animal origin by gas chromatography-mass spectrometry (GC-MS/MS) (Chloroneb, Pentachlorobenzene (PeCB), alpha-BHC (alpha-HCH), Hexachlorobenzene (HCB), Pentachloroanisole, beta-BHC (beta-HCH), gamma-BHC (gamma-HCH), delta-BHC (delta-HCH), Endosulfan ether, Heptachlor, Pentachlorothioanisole, Aldrin, 4,4-dichlorobenzophenone, Fenson, Isodrin, Heptachlor epoxide (isomer B), Chlorbenside, trans-chlordane, 2,4-DDE (o,p-DDE), Endosulfan I (Endosulfan alpha), cis-Chlordane, trans-Nonachlor, Chlorfenson (Ovex), Dieldrin, 4,4-DDE (p,p-DDE), 2,4-DDD (o,p-DDD), Endrin, Endosulfan II (Endosulfan beta), 4,4-DDD (p,p-DDD), 2,4-DDT (o,p-DDT), cis-Nonachlor, Endrin aldehyde, 4,4-methoxychlor olefin, Endosulfan sulfate, 4,4-DDT (p,p-DDT), 2,4-methoxychlor, Endrin ketone, Tetradifon, Mirex, Bifenthrin, Chlorpyrifos, Chlorpyrifos-methyl, Cypermethrin, Deltamethrin, Diazinon, Famoxadone, Fenvalerate,*	Vlastita metoda *In-house method* SOP-LKH-1-2,16/222 IV. izdanje/ *edition* (2021-06-15)

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon**/Range*	**Metoda ispitivanja** *Test method*
23.	Hrana životinjskog podrijetla (meso i proizvodi od mesa Mlijeko i mliječni proizvodi, sladoled i puding, jaja) *Food of animal origin (meat and meat products Milk and milk products, icecream and pudding, eggs)*	*Indoxacarb, Methoxychlor, Parathion, Permethrin, Pirimiphos-methyl, Fenthion, Fenthion sulfoxide, Fenthion sulfone, Azinphos-ethyl, Oxichlordan, Chlorfenvinphos, Chlorobenzilate, Cyfluthrin, Malathion, Methidathion, lambda-Cyhalothrin, Parathion-methyl, Pendimethalin, Profenofos, Pyrazophos, Quintozene, Tecnazene, Phosmet, Phoxim, Triazophos, Resmethrin, Vinclozolin, Fipronil)*	Vlastita metoda *In-house method* SOP-LKH-1-2,16/222 IV. izdanje/ *edition* (2021-06-15)
24.	Meso i mesni proizvodi *Meat and meat products*	Određivanje sadržaja vode *Determination of moisture content*	ISO 1442:1997
25.		Određivanje sadržaja dušika *Determination of nitrogen content*	HRN EN ISO 8968-1:2014 *(ISO 8968-1:2014; EN ISO 8968-1:2014)*
26.		Određivanje sadržaja ukupne masti *Determination of total fat*	Vlastita metoda *In-house method* SOP-LKH-01/10 VIII. izdanje/ *edition* (2019-12-04) modificirana / *modified* HRN ISO 1443:1999 *(ISO 1443:1973)*
27.		Određivanje sadržaja nitrita *Determination of nitrite content*	Vlastita metoda *In-house method* SOP-LKH-01/11 V. izdanje/ *edition* (2019-12-04) modificirana / *modified* ISO 2918:197

REPUBLIKA HRVATSKA 2 ZAGREB HRVATSKA AKREDITACIJSKA AGENCIJA

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon**/Range*	**Metoda ispitivanja** *Test method*
28.	Meso i mesni proizvodi *Meat and meat products*	Određivanje sadržaja fosfora *Determination of phosphorus content*	Vlastita metoda *In-house method* SOP-LKH-01/12 VII. izdanje/ *edition* (2019-12-09) modificirana / *modified* HRN ISO 13730:1999 *(ISO 13730:1996)*
29.		Određivanje sadržaja pepela *Determination of total ash*	Vlastita metoda *In-house method* SOP-LKH-01/15 VII. izdanje/ *edition* (2019-12-09) modificirana / *modified* ISO 936:1998
30.		Određivanje sadržaja hidroksiprolina *Determination of hydroxyproline content*	HRN ISO 3496:1999 (ISO 3496:1994)
31.	Mlijeko i mliječni proizvodi *Milk and milk products*	Određivanje sadržaja vode *Determination of moisture content*	Pravilnik o metodama uzorkovanja i analiza ugušćenog (kondenziranog) mlijeka i mlijeka u prahu namijenjenih za konzumaciju (NN 112/09), Prilog II *Ordinance on Methods of Sampling and Analysis of Condensed Milk and Milk Powder intended for Human Consumption* (NN 112/09), Annex II
32.		Određivanje sadržaja pepela *Determination of total ash*	Vlastita metoda *In-house method* SOP-LKH-02/15 VI. izdanje/ edition (2019-12-09) modificirana / *modified* HRN ISO 5984:2004 *(ISO 5984:2002)*

REPUBLIKA HRVATSKA - HRVATSKA AKREDITACIJSKA AGENCIJA ZAGREB 2

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon**/Range*	**Metoda ispitivanja** *Test method*
33.	Mlijeko i mliječni proizvodi *Milk and milk products*	Određivanje sadržaja dušika *Determination of nitrogen content*	HRN EN ISO 8968-1:2014 *(ISO 8968-1:2014; EN ISO 8968-1:2014)*
34.	Mlijeko, mliječni proizvodi, hrana za dojenčad *Milk, milk products, infant formula*	Određivanje sastava masnih kiselina u mlijeku, mliječnim proizvodima i hrani za dojenčad tehnikom plinske kromatografije *Determination of fatty acids composition in milk, milk products and infant formula –gas chromatographic method*	HRN EN ISO 16958:2020 *(ISO 16958:2015; EN ISO 16958:2020)*
35.	Mliječni proizvodi *Milk products*	Određivanje sadržaja ukupne masti *Determination of total fat content*	Vlastita metoda *In-house method* SOP-LKH-02/10 VI. izdanje / *edition* (2019-12-09) modificirana / *modified* HRN ISO 1443:1999 *(ISO 1443:1973)*
36.	Hrana i hrana za životinje Životinjski izmet i uzorci okoliša iz primarne proizvodnje *Food and animal feeding stuffs Animal faeces and environmental samples from the primary production stage*	Horizontalna metoda za otkrivanje Salmonella spp. *Horizontal method for the detection of Salmonella sp.*	HRN EN ISO 6579-1:2017 *(ISO 6579-1:2017; EN ISO 6579-1:2017)* HRN EN ISO 6579-1:2017 + A1:2020 *(ISO 6579-1:2017/Amd 1:2020; EN ISO 6579-1:2017/A1:2020)*

REPUBLIKA HRVATSKA - HRVATSKA AKREDITACIJSKA AGENCIJA 2 ZAGREB

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon**/Range*	**Metoda ispitivanja** *Test method*
37.	Hrana i hrana za životinje *Food and animal feeding stuffs*	Horizontalna metoda za dokazivanje Listeria monocytogenes *Horizontal method for the detection of Listeria monocytogenes*	Vlastita metoda *In-house method* SOP-MO-1;2;3/11/KL VI. izdanje / *edition* (2017-11-10) modificirana / *modified* HRN EN ISO 11290-1:2017 *(ISO 11290-1:2017; EN ISO 11290-1:2017)*
38.		Horizontalna metoda za dokazivanje prisutnosti i određivanje broja stanica Listeria monocytogenes – Metoda brojenja *Horizontal method for the detection and enumeration of Listeria monocytogenes – Enumeration method*	HRN EN ISO 11290-2:2017 *(ISO 11290-2:2017; EN ISO 11290-2:2017)*
39.		Horizontalna metoda za brojenje mikroorganizama - tehnika brojenja kolonija na 30 °C *Horizontal method for the enumeration of microorganisms- Colony-count technique at 30 °C*	HRN EN ISO 4833-1:2013 *(ISO 4833-1:2013; EN ISO 4833-1:2013)* HRN EN ISO 4833-2:2013 *(ISO 4833-2:2013; EN ISO 4833-2:2013)*
40.		Metoda za brojenje Enterobacteriaceae bez ponovnog oživljavanja - postupak brojenja kolonija *Method for enumeration of Enterobacteriaceae without resuscitation - Colony count technique*	HRN EN ISO 21528-2:2017 *(ISO 21528-2:2017)*
41.		Metoda za dokazivanje Enterobacteriaceae postupkom predobogaćivanja *Method for the detection of Enterobacteriaceae with pre - enrichment*	HRN EN ISO 21528-1:2017 *(ISO 21528-1:2017)*
42.		Metoda za brojenje kvasaca i plijesni - postupak brojenja kolonija *Method for enumeration of yeasts and moulds - Colony count technique*	HRN ISO 21527-1:2012 *(ISO 21527-1:2008)* HRN ISO 21527-2:2012 *(ISO 21527-2:2008)*

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon/****Range*	**Metoda ispitivanja** *Test method*
43.	Hrana i hrana za životinje *Food and animal feeding stuffs*	Metoda za brojenje Escherichia coli bez oživljavanja - postupkom brojenja kolonija *Method for enumeration of Escherichia coli without resuscitation - Colony count technique*	HRN ISO 16649-2:2001 *(ISO 16649-2:2001)*
44.		Metoda za dokazivanje Escherichia coli postupkom predobogaćivanja *Method for the detection of Escherichia coli with pre - enrichment*	Modificirana HRN EN ISO 16649-3:2015 *(ISO 16649-3:2015, EN ISO 16649-3:2015)* Vlastita metoda *In-house method* SOP-MO-1; 2; 3/04-KL VI. izdanje/*edition* (2016-03-15)
45.		Metoda za brojenje Staphylococcus aureus - postupkom brojenja kolonija *Method for enumeration of Staphylococcus aureus - Colony count technique*	HRN EN ISO 6888-1:2004 *(ISO 6888-1:1999+Amd 1:2003; EN ISO 6888-1:1999+A1:2003)* HRN EN ISO 6888-1:2004 + A2:2019 *(ISO 6888-1:1999 +Amd 1:2003 + Amd 2:2018; EN ISO 6888-1:1999 +A1:2003 + A2:2018)*
46.		Metoda za dokazivanje Staphylococcus aureus *Method for the detection of Staphylococcus aureus*	HRN EN ISO 6888-3:2004 *(ISO 6888-3:2003; EN ISO 6888-3:2003)*
47.		Metoda za brojenje sulfitoreducirajućih bakterija u anaerobnim uvjetima *Method for the enumeration of sulfite-reducing bacteria growing under anaerobic conditions*	HRN ISO 15213:2004 *(ISO 15213:2003)*

REPUBLIKA HRVATSKA - HRVATSKA AKREDITACIJSKA AGENCIJA - ZAGREB

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon**/Range*	**Metoda ispitivanja** *Test method*
48.	Hrana i hrana za životinje *Food and animal feeding stuffs*	Metoda za dokazivanje sulfitoreducirajućih bakterija (Clostridium perfringens i druge vrste) u anaerobnim uvjetima *Method for the detection of sulfite - reducing bacteria (Clostridium perfringens and other species) growing under anaerobic conditions*	Vlastita metoda *In-house method* SOP-MO-1;2;3/09/10-KL VI. izdanje/ *edition* (2013-02-28) modificirana / *modified* HRN EN 26461-1:2008 *(ISO 6461-1:1986; EN 26461-1:1993)*
49.		Horizontalna metoda za brojenje Clostridium perfringens- tehnika brojenja kolonija *Horizontal method for enumeration of Clostridium perfringens - Colony count technique*	HRN EN ISO 7937:2005 *(ISO 7937:2004; EN ISO 7937:2004)*
50.		Dokazivanje prisutnosti Campylobacter spp. *Detection of Campylobacter spp.*	HRN EN ISO 10272-1:2017 *(ISO 10272-1;2017; EN ISO 10272-1:2017)*
51.	Meso i mesni proizvodi *Meat and meat products*	Horizontalna metoda za dokazivanje prisutnosti patogene Yersinia enterocolitica *Horizontal method for the detection of presumptive pathogenic Yersinia enterocolitica*	HRN EN ISO 10273:2017 *(ISO 10273:2017; EN ISO 10273:2017)*
52.	Meso, mesni proizvodi, obrisci trupova *Meat, meat products, carcass swab*	Horizontalna metoda za otkrivanje Escherichia coli O157 *Horizontal method for the detection of Escherichia coli O157*	HRN EN ISO 16654:2003 *(ISO 16654:2001; EN ISO 16654:2001)* HRN EN ISO 16654:2003/A1:2017 *(ISO 16654:2001/Amd 1:2017; EN ISO 16654:2001/A1:2017)*
53.	Hrana za životinje *Animal feeding stuffs*	Određivanje sadržaja vode *Determination of moisture content*	Vlastita metoda *In-house method* SOP-LKH-36/08 V. izdanje / *edition* (2019-12-09) modificirana / *modified* HRN ISO 6496:2001 *(ISO 6496:1999)*

REPUBLIKA HRVATSKA - HRVATSKA AKREDITACIJSKA AGENCIJA 2 ZAGREB

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon**/Range*	**Metoda ispitivanja** *Test method*
54.	Hrana za životinje *Animal feeding stuffs*	Određivanje sadržaja dušika *Determination of nitrogen content*	HRN EN ISO 5983-1:2008 *(ISO 5983-1:2005; EN ISO 5983-1:2005)* HRN EN ISO 5983-1:2008/ Ispr. 1:2011 *(ISO 5983-1:2005/Cor 1:2008; EN ISO 5983-1:2005/AC:2009)*
55.		Određivanje sadržaja ukupne masti *Determination of total fat content*	Vlastita metoda *In-house method* SOP-LKH-36/10 VI. izdanje / *edition* (2019-12-09) modificirana / *modified* HRN ISO 6492:2001 *(ISO 6492:1999)*
56.		Određivanje sadržaja pepela *Determination of crude ash*	HRN ISO 5984:2004 *(ISO 5984:2002)*
57.	Povrće i proizvodi od povrća *Vegetables and vegetables products*	Određivanje količine nitrata metodom kromatografije s ionskim izmjenjivačem/ *Determination of nitrate by ion exchange chromatography method*	Vlastita metoda *In-house method* SOP-LKH-04/199 II. izdanje/ *edition* *(2019-09-09)* modificirana / *modified* HRN EN 12014-2:2018 (EN 12014-2:2017)

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon**/Range*	**Metoda ispitivanja** *Test method*
58.	Voće i povrće s visokim udjelom vode *Fruits and vegetables – high water content*	Određivanje dodina LC-MS/MS tehnikom *Determination of dodine LC-MS/MS technique*	Vlastita metoda *In-house method* SOP-LKH-41/195 II. izdanje / *edition* (2019-09-12)
59.	Voće i povrće s visokim udjelom kiseline i visokim udjelom vode *Fruits and vegetables – high acid content and high water content*	Određivanje kvarternih amonijevih spojeva LC-MS/MS tehnikom *Determination of quaternary ammonium compounds LC-MS/MS technique*	Vlastita metoda *In-house method* SOP-LKH-41/196 II. izdanje / *edition* (2019-08-22)
60.	Voće i povrće s visokim udjelom šećera i niskim udjelom vode *Fruits and vegetables – high sugar and low water content*	Određivanje 2,4-D pesticida LC-MS/MS tehnikom/ *Determination of 2,4-D pesticide LC-MS/MS technique*	Vlastita metoda *In-house method* SOP-LKH-41/207 I. izdanje / *edition* (2018-11-08)
61.	Voće i povrće s visokim udjelom ulja i srednjim te niskim udjelom vode *Fruits and vegetables – high oil content and intermediate or low water content*	Određivanje ostataka Fenbutatin oksida u hrani biljnog podrijetla GC-MS/MS tehnikom *Determination of Fenbutatin oxide in food of plant origin by gas chromatography-mass spectrometry (GC-MS/MS)*	Vlastita metoda *In-house method* SOP-LKH-41/201 II. izdanje / *edition* (2019-09-18)
62.	Žitarice i proizvodi od žitarica – visoki udio škroba i/ili proteina te niski udio vode i masti *Cereals and cereals products – high starch and/or protein content and low water and fat content*	Određivanje Fluazifop-P-butyla u hrani biljnog podrijetla GC-MS/MS tehnikom *Determination of Fluazifop-P-butyl in food of plant origin by gas chromatography-mass spectrometry (GC-MS/MS)*	Vlastita metoda *In-house method* SOP-LKH-41/197 III. izdanje / *edition* (2020-04-15)
63.		Određivanje Amitraza u hrani biljnog podrijetla GC-MS/MS tehnikom *Determination of Amitraz in food of plant origin by gas chromatography-mass spectrometry (GC-MS/MS)*	Vlastita metoda *In-house method* SOP-LKH-41/206 II. izdanje / *edition* (2020-04-14)
64.	"Teške ili jedinstvene sirovine" *"Difficult or unique commodities"*	Određivanje Ethephona u hrani biljnog podrijetla LC-MS/MS tehnikom *Determination of Ethephon in food of plant origin by Liquid chromatography-mass spectrometry (LC-MS/MS)*	Vlastita metoda *In-house method* SOP-LKH-41/210 II. izdanje / *edition* (2020-04-15)

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon**/Range*	**Metoda ispitivanja** *Test method*
65.	Voće i povrće s visokim udjelom vode *Fruits and vegetables –high water content*	Određivanje ditiokarbamatnih i tiuram disulfidnih ostataka u hrani bilnog podrijetla – GC-MS/MS metoda *Determination of dithiocarbamates and thiuram disulfide residues in food of plant origin - GC-MS/MS method*	Vlastita metoda *In-house method* SOP-LKH-41/202 II. izdanje / *edition* (2021-04-14)
66.		Određivanje ukupnih anorganskih bromida u hrani GC-ECD metodom *Determination of inorganic bromide residues in food by GC-ECD method*	Vlastita metoda In-house method SOP-LKH-41/232 I. Izdanje / *edition* (2021-03-05)
67.	Hrana biljnog podrijetla (uključujući mlinske i pekarske proizvode, tjesteninu i brzo smrznuta tijesta) *Food of plant origin (including mill and bakery products, pasta and quick-frozen dough)*	Određivanje mikotoksina LC-MS/MS tehnikom: Aflatoksin B1, B2, G1, G2, HT2-toksin, T2-toksin, zearalenon, ohratoksin A, deoksinivalenol *Determination of mycotoxins LC-MS/MS technique: Aflatoxin B1, B2, G1, G2, HT2-toxin, T2-toxin, zearalenone, ochratoxin A, deoxynivalenol*	*Vlastita metoda* In-house method SOP-LKH-41/203 III. izdanje / *edition* (2019-10-10)
68.	Voće i povrće s visokim udjelom vode *Fruits and vegetables – high water content*	Određivanje haloxyfopa LC-MS/MS tehnikom *Determination of Haloxyfop by Liquid chromatography-mass spectrometry (LC-MS/MS)*	*Vlastita metoda* In-house method SOP-LKH-41/213 I. izdanje / *edition* (2019-04-15)
69.	Voće i povrće s visokim udjelom kiseline i visokim udjelom vode *Fruits and vegetables – high acid content and high water content*	Određivanje ditianona LC-MS/MS tehnikom *Determination of Dithianon by Liquid chromatography-mass spectrometry (LC-MS/MS)*	*Vlastita metoda* In-house method SOP-LKH-41/220 I. izdanje / *edition* (2019-09-11)
70.		Određivanje glifosata LC-MS/MS tehnikom *Determination of Glyphosate by Liquid chromatography-mass spectrometry (LC-MS/MS)*	*Vlastita metoda* In-house method SOP-LKH-41/221 I. izdanje / *edition* (2019-07-16)

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon/****Range*	**Metoda ispitivanja** *Test method*
71.	Vino *Wine*	Određivanje pepela *Determination of ash content*	Vlastita metoda *In-house method* SOP-LKH-11/15 V. izdanje / *edition* (2019-12-09) Commission Regulation EEC 2676/90 Annex 9. 9. Ash content modificirana / *modified*
72.		Određivanje pH *Determination of pH*	Commission Regulation EEC 2676/90 Annex 24. 24. pH
73.		Piknometrijsko određivanje relativne gustoće na 20°C, količine alkohola i ukupnog suhog ekstrakta *Picnometric determination of specific gravity at 20°C, alcoholic strength and dry extract*	Commission Regulation EEC 2676/90 Annex 1. Density and specific gravity at 20 °C Annex 3. 3. Alcoholic strenght by volume Annex 4. 4. Total dry extract Vlastita metoda *In-house method* SOP-LKH-11/31 VII. izdanje / *edition* (2019-12-10)
74.		Određivanje reducirajućih šećera *Determination of reducing sugars*	Commission Regulation EEC 2676/90 (modif.) Annex 5. 5. Reducing sugars Vlastita metoda *In-house method* SOP-LKH-11/34 VII. izdanje / *edition* (2019-12-10) modificirana / *modified*

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon**/Range*	**Metoda ispitivanja** *Test method*
75.	Vino *Wine*	Određivanje ukupne kiselosti *Determination of total acidity*	Commission Regulation EEC 2676/90 Annex 13. 13. Total acidity
76.		Određivanje hlapive kiselosti *Determination of volatile acidity*	Commission Regulation EEC 2676/90 Annex 14. 14. Volatile acidity Vlastita metoda *In-house method* SOP-LKH-11/36 V. izdanje / *edition* (2019-12-10)
77.		Određivanje sumpornog dioksida *Determination of sulphur dioxide*	Commission Regulation EEC 2676/90 Annex 25. 25. Sulphur dioxide SOP-LKH-11/37 VIII. izdanje / *edition* (2019-12-10)
78.		Određivanje slobodnog sumpornog dioksida *Determination of free sulphur dioxide*	Commission Regulation EEC 2676/90 Annex 25. 25. Sulphur dioxide referentna metoda *reference method* Vlastita metoda *In-house method* SOP-LKH-11/38 VIII. izdanje / *edition* (2019-12-10)
79.	Ambalaža (materijali koji dolaze u neposredan dodir s hranom) *Packaging (materials in direct contact with food)*	Određivanje stiren monomera metodom Headspace plinske kromatografije s masenom spektrometrijom (GC-MS) *Determination of styrene monomer using Headspace GC-MS technique*	Vlastita metoda *In-house method* SOP-LKH-30/142a II. izdanje / *edition* *(2019-10-1*

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon/****Range*	**Metoda ispitivanja** *Test method*
80.	Voda za ljudsku potrošnju, prirodne izvorske, prirodne mineralne, stolne vode, vode za kupanje, otpadne, procjedne, površinske i podzemne vode, eluati otpada *Water for human consumption, natural spring water, natural mineral water, table water, bathing water, waste water, surface water and leachate water, waste eluates*	Određivanje sadržaja klorida *Determination of chloride content* Granica kvantifikacije/ *Quantification limit* 5 mg/L	HRN ISO 9297:1998 *(ISO 9297:1989)*
81.		Određivanje sadržaja ukupnog dušika i nitrata u vodama *Determination of total nitrogen and nitrate* Granica kvantifikacije/ *Quantification limit* 0,15 mg N/L	Vlastita metoda *In-house method* SOP-LEK-31-33, 37 i 38/09 IV. izdanje / *edition* (2020-7-29)
82.	Voda za ljudsku potrošnju, prirodne izvorske, prirodne mineralne, stolne vode, vode za kupanje, otpadne, procjedne, površinske i podzemne vode, eluati otpada, tekući otpad *Water for human consumption, natural spring water, natural mineral water, table water, bathing water, waste water, surface water and leachate water, waste eluates, liquid waste*	Određivanje sadržaja nitrita *Determination of nitrite* Granica kvantifikacije/ *Quantification limit* 0,02 mg N/L	HRN EN 26777:1998 *(ISO 6777:1984; EN 26777:1993)*

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon**/Range*	**Metoda ispitivanja** *Test method*
83.	Voda za ljudsku potrošnju, prirodne izvorske, prirodne mineralne, stolne vode, podzemne vode, vode za kupanje, otpadne, procjedne i površinske vode, eluati otpada *Water for human consumption, natural spring water, natural mineral water, table water, ground water,bathing water, waste water, surface water and leachate water, waste eluates*	Određivanje sadržaja amonija *Determination of ammonium* Granica kvantifikacije/ *Quantification limit* 0,005 mg N/L	HRN ISO 7150-1:1998 *(ISO 7150-1:1984)*
84.		Određivanje sadržaja žive *Determination of mercury* Granica kvantifikacije/ *Quantification limit* 0,007 µg/L	HRN EN ISO 12846:2012 *(ISO12846:2012; EN ISO 12846:2012)*
85.		Određivanje sadržaja arsena – metoda atomske apsorpcijske spektrometrije *Determination of arsenic - AAS method* Granica kvantifikacije/ *Quantification limit* 1 µg/L	Vlastita metoda *In-house method* SOP-LEK-31;37/7b V. izdanje / *edition* (2015-02-13)
86.	Voda za ljudsku uporabu,prirodne mineralne, prirodne izvorske, stolne vode, podzemne, površinske vode, procjedne vode, otpadne vode i eluati otpada *Water for human consumption, natural spring water, natural mineral water, table water, ground water, waste water, surface water and leachate water, waste eluates*	Određivanje polibromiranih difenil-etera (PBDE: BDE-028, BDE-047, BDE-099, BDE-100, BDE-153, BDE-154, BDE-183) metodom plinske kromatografije s masenom spektrometrijom (GC-MS/MS) *Determination of polybrominated diphenyl ethers (PBDE: BDE-028, BDE-047, BDE-099, BDE-100, BDE-153, BDE-154, BDE-183) – gas chromatographic method with mass spectrometry (GC-MS/MS)* Granica kvantifikacije/ *Quantification limit* 0,000041 – 0,00093 µg/L	Vlastita metoda *In-house method* SOP-LEK-33;37/179 III. izdanje / *edition (2021-02-15)* modificirana / *modified* HRN EN 16694:2015 (EN 16694:2015)

REPUBLIKA HRVATSKA - HRVATSKA AKREDITACIJSKA AGENCIJA 2 ZAGREB

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon**/Range*	**Metoda ispitivanja** *Test method*
87.	Voda za ljudsku potrošnju, prirodne izvorske, prirodne mineralne, stolne vode, vode za kupanje, otpadne vode, površinske, procjedne i podzemne vode, eluati otpada, tekući otpad *Water for human consumption, natural spring water, natural mineral water, table water, bathing water, waste water, surface water, leachate water and ground water, waste eluates, liquid waste*	Određivanje pH vrijednosti *Determination of pH* Raspon/ *Range:* pH 2,0 -14,0	HRN EN ISO 10523:2012 *(ISO 10523:2008; EN ISO 10523:2012)*
88.		Određivanje električne vodljivosti *Determination of electrical conductivity* Granica kvantifikacije/ *Quantification limit* 78 µS/cm	HRN EN 27888:2008 *(ISO 7888:1985; EN 27888:1993)*
89.	Voda za ljudsku potrošnju, prirodne izvorske, prirodne mineralne, stolne vode, vode za kupanje, otpadne vode, površinske, procjedne i podzemne vode, eluati otpada *Water for human consumption, natural spring water, natural mineral water, table water, bathing water, waste water, surface water, leachate water and ground water, waste eluates*	Određivanje permanganatnog indeksa *Determination of permaganate indeks* Granica kvantifikacije/ *Quantification limit* 0,32 mg O_2/L	HRN EN ISO 8467:2001 *(ISO 8467:1993; EN ISO 8467:1995)*
90.		Određivanje mutnoće *Determination of turbidity* Granica kvantifikacije/ *Quantification limit* 0,21 NTU	HRN EN ISO 7027-1:2016 *(ISO 7027-1:2016; EN ISO 7027-1:2016)*
91.		Procjena boje pomoću platina-kobalt ljestvice boja *Estimation of colour by the platinum – cobalt colour scale* Granica kvantifikacije/ *Quantification limit* 3 Pt/Co jedinice	HRN EN ISO 6271:2016 *(ISO 6271:2015; EN ISO 6271:2015)*

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon**/Range*	**Metoda ispitivanja** *Test method*
92.	Voda za ljudsku potrošnju, prirodne izvorske, prirodne mineralne, stolne vode, vode za kupanje, otpadne vode, površinske, procjedne i podzemne vode, eluati otpada *Water for human consumption, natural spring water, natural mineral water, table water, bathing water, waste water, surface water, leachate water and ground water, waste eluates*	Određivanje ukupnog organskog ugljika (UOU) i otopljenog organskog ugljika (OOU) *Determination of total organic carbon and dissolved organic carbon* Granica kvantifikacije/ *Quantification limit* 0,188 mg/L	HRN EN 1484:2002 *(EN 1484:1997)*
93.		Određivanje indeksa kemijske potrošnje kisika (KPK) *Determination of the chemical oxygen demand indeks (ST-COD)* Granica kvantifikacije/ *Quantification limit* 4 mg O_2/L	HRN ISO 15705:2003 *(ISO 15705:2002)*
94.		Određivanje suspendiranih tvari- Metoda filtriranjem kroz filtar od staklenih vlakana *Determination of suspended solids - Method by filtration through glass fibre filters* Granica kvantifikacije/ *Quantification limit* 2 mg/L	HRN EN 872:2008 *(EN 872:2005)*
95.	Voda za ljudsku potrošnju, prirodne izvorske, prirodne mineralne, stolne vode, podzemne vode, vode za kupanje i površinske vode *Water for human consumption, natural spring water, natural mineral water, table water, ground water, bathing water and surface water*	Brojenje uzgojenih mikroorganizama - Broj kolonija nacjepljivanjem na hranjivi agar *Enumeration of culturable micro-organisms - Colony count by inoculation in a nutrient agar culture medium*	HRN EN ISO 6222:2000 *(ISO 6222:1999; EN ISO 6222:1999)*

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon**/Range*	**Metoda ispitivanja** *Test method*
96.	Voda za ljudsku potrošnju, prirodne izvorske, prirodne mineralne, stolne vode, podzemne vode, vode za kupanje i površinske vode *Water for human consumption, natural spring water, natural mineral water, table water, ground water, bathing water and surface water*	Detekcija i brojenje *Escherichia coli,* koliformnih bakterija i fekalnih koliformnih bakterija - Metoda membranske filtracije *Detection and enumeration of Escherichia coli, coliform bacteria and fecal coliform bacteria - Membrane filtration method*	HRN EN ISO 9308-1:2014/A1:2017 *(ISO 9308-1:2014/Amd 1:2016; EN ISO 9308-1:2014/A1:2017)* Vlastita metoda *In-house method* SOP-MO-MF-05/4;6;15/VP VI. izdanje / *edition* (2015-03-16)
97.		Detekcija i brojenje Pseudomonas aeruginosa membranskom filtracijom *Detection and enumeration of Pseudomonas aeruginosa by membrane filtration*	HRN EN ISO 16266:2008 *(ISO 16266:2006; EN ISO 16266:2008)*
98.	Voda za ljudsku potrošnju, prirodne izvorske, prirodne mineralne, stolne vode, podzemne vode, vode za kupanje i površinske vode *Water for human consumption, natural spring water, natural mineral water, table water, ground water, bathing water and surface water*	Detekcija i brojenje fekalnih streptokoka - Metoda membranske filtracije *Detection and enumeration of faecal streptococci - Method by membrane filtration*	HRN EN ISO 7899-2:2000 *(ISO 7899-2:2000; EN ISO 7899-2:2000)*
99.		Detekcija i brojenje spora sulfitoreducirajućih anaeroba (klostridija) - Metoda membranske filtracije *Detection and enumeration of the spores of sulfite-reducing anaerobes (clostridia) - Method by membrane filtration*	HRN EN 26461-2:2008 *(ISO 6461-2:1986; EN 26461-2:1993)*

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon**/Range*	**Metoda ispitivanja** *Test method*
100.	Voda za ljudsku potrošnju, prirodne izvorske, prirodne mineralne, stolne vode, voda za kupanje, podzemne, otpadne, procjedne i površinske vode *Water for human consumption, natural spring water, natural mineral water, table water, bathing water, waste water, leachate water and surface water*	Određivanje slobodnog i ukupnog klora kolorimetrijskom metodom *Determination of free and total chlorine - Colorimetric method* Granica kvantifikacije/ *Quantification limit* 0,05 mg Cl_2/L	HRN EN ISO 7393-2:2018 *(ISO 7393-2:2017; EN ISO 7393-2:2018)*
101.	Voda za ljudsku potrošnju, prirodne izvorske, prirodne mineralne, stolne vode, voda za kupanje, podzemne, površinske vode, procjedne i otpadne vode *Water for human consumption, natural spring water, natural mineral water, table water, bathing water, ground water, waste water, leachate water and surface water*	Određivanje otopljenog kisika i zasićenja kisikom pomoću optičke sonde *Determination of Dissolved Oxygen and Oxygen Saturation by Instrumental Probe with Luminescence-Based Sensor* Granica kvantifikacije/ *Quantification limit* Otopljeni kisik / *dissolved oxygen* 0,10 mg/L; Zasićenje kisikom / *oxygen saturation* 1,0 %	ASTM: D888-18 Test Method C

REPUBLIKA HRVATSKA - HRVATSKA AKREDITACIJSKA AGENCIJA - ZAGREB

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon**/Range*	**Metoda ispitivanja** *Test method*
102.	Voda za ljudsku potrošnju, prirodne mineralne, prirodne izvorske, stolne vode, podzemne, površinske vode, procjedne i otpadne vode i eluati otpada *Water for human consumption, natural spring water, natural mineral water, table water, ground water, surface water, leachate water, waste water and waste eluates*	Određivanje kiselih pesticida (2,4-DP, bentazon, dikamba, MCPB, 2,4-DB, MCPA, fenoprop (Silveks), 2,4-D, ioksinil) u vodi metodom tekućinske kromatografije s masenom spektrometrijom (LC-MS/MS) *Determination of acidic pesticides (2,4-DP, bentazon, dicamba, MCPB, 2,4-DB, MCPA, fenoprop (Silvex), 2,4-D, ioxynil) in water – liquid chromatographic method with mass spectrometry (LC-MS/MS)* Granica kvantifikacije/ *Quantification limit* 0,002 µg/L	Vlastita metoda *In-house method* SOP-LEK-31-33,37/182 III. izdanje / *edition* (2020-03-13) modificirana / *modified* DIN 38407-35:2010
103.	Voda za ljudsku potrošnju, prirodne izvorske, prirodne mineralne, stolne vode, vode za kupanje, podzemne, procjedne, površinske vode, otpadne vode, eluati i apsorpcijske tekućine *Water for human consumption, natural spring water, natural mineral water, table water, bathing water, ground water, leachate water, surface water, waste water, eluates and apsorption solution*	Određivanje otopljenih fluorida, klorida, nitrita, ortofosfata, bromida, nitrata i sulfata ionskom kromatografijom *Determination of dissolved fluoride, chloride, nitrite, orthophosphate, bromide, nitrate and sulfate ions, using liquid chromatography of ions* Granica kvantifikacije/ *Quantification limit* Fluoridi: 0,1 mg/L Kloridi: 5 mg/L Nitriti: 0,02 mg N/L Ortofosfati: 0,1 mg/L (0,03 mgP/L) Bromidi: 0,1 mg/L Nitrati: 5 mg/L (1,13 mg N/L) Sulfati: 5 mg/L (1,66 mg S/L)	HRN EN ISO 10304-1:2009 *(ISO 10304-1:2007; EN ISO 10304-1:2009)*

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon**/Range*	**Metoda ispitivanja** *Test method*
104.	Voda za ljudsku potrošnju, prirodne izvorske, prirodne mineralne, stolne vode, vode za kupanje, podzemne, procjedne, površinske vode i otpadne vode *Water for human consumption, natural spring water, natural mineral water, table water, bathing water, ground water, leachate water, surface water and waste water*	Određivanje temperature *Determination of temperature* Od/ *from* 0°C do/ *till* 50°C	SM 23rdEd.2017.2550B
105.	Voda za ljudsku potrošnju, prirodne izvorske, prirodne mineralne, stolne vode, podzemne, površinske, procjedne i otpadne vode *Water for human consumption, natural spring water, natural mineral water, table water, ground water, surface water, leachate water and waste water*	Određivanje polikloriranih bifenila (PCB 28, PCB 52, PCB 101, PCB 118, PCB 138, PCB 153, PCB 180, PCB 194) u vodama – metoda plinske kromatografije s masenom spektrometrijom (GC-MS) *Determination of polychlorinated biphenyls (PCB 28, PCB 52, PCB 101, PCB 118, PCB 138, PCB 153, PCB 180, PCB 194) in water – gas chromatographic method with mass spectrometry (GC-MS)* Granica kvantifikacije/ *Quantification limit*: 0,002 µg/L – PCB 28, PCB 52, PCB 101, PCB 118, PCB 138, PCB 153, PCB 180 0,01 µg/L – PCB 194	Vlastita metoda *In-house method* SOP-LEK-31-33,37/02 II. izdanje / *edition* (2021-02-26)

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon**/Range*	**Metoda ispitivanja** *Test method*
106.	Voda za ljudsku potrošnju, prirodne izvorske, prirodne mineralne, stolne vode, podzemne, površinske, procjedne i otpadne vode *Water for human consumption, natural spring water, natural mineral water, table water, ground water, surface water, leachate water and waste water*	Određivanje indeksa naftnih ugljikovodika *Determination of hydrocarbon oil index* Granica kvantifikacije/ *Quantification limit* 6,0 µg/L (vode, osim otpadnih voda / *water, except waste water*) 0,1 mg/L (otpadne vode / *waste water*)	HRN EN ISO 9377-2:2002 *(ISO 9377-2:2000; EN ISO 9377-2:2000)*
107.	Voda za ljudsku potrošnju, prirodne izvorske, prirodne mineralne, stolne vode, podzemne, površinske, procjedne i otpadne vode *Water for human consumption, natural spring water, natural mineral water, table water, ground water, surface water, leachate water and waste water*	Određivanje policikličkih aromatskih ugljikovodika (PAH: naftalen; acenaftilen; acenaften; fluoren; fenantren; antracen; fluoranten; piren; benzo[a]antracen; krizen; benzo[b]fluoranten; benzo[k]fluoranten; benzo[a]piren; indeno[1,2,3-c,d]piren; dibenzo[a,h]antracen; benzo[g,h,i]perilen) u vodama metodom plinske kromatografije s masenom spektrometrijom *Determination of 16 polycyclic aromatic hydrocarbons (PAH:Naphthalene;Acenapthylen; Acenaphthene; Fluorene; Phenanthrene; Pyrene, Chrysene, Benzanthracene, Benzo [a]pyrene Benzo[b]fluoranhtene; Benzo[k]fluoranhtene; Indeno[1,2,3-cd]pyrene; Dibenzo[a,h]anthracene; Benzo[g,h,i]perylene) in water -- Method using gas chromatography with mass spectrometric detection* Granica kvantifikacije/ *Quantification limit* 0,00005 µg/L	ISO 28540:2011

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon**/Range*	**Metoda ispitivanja** *Test method*
108.	Površinske, podzemne, procjedne i otpadne vode *Surface water, ground water, leachate and waste water*	Određivanje masti i ulja *Determination of grease and oil* Granica kvantifikacije/ *Quantification limit* 5,0 mg/L	EPA Method 1664, Revision A, 2000.
109.	Površinske, podzemne, procjedne i otpadne vode *Surface water, ground water, leachate and waste water*	Određivanje biokemijske potrošnje kisika u vodi nakon 5 dana – Metoda razrijeđivanja i nacjepljivanja uz dodatak aliltiouree *Determination of biochemical oxygen demand after 5 days (BOD_5) - Dilution and seeding method with allylthiourea addition* Granica kvantifikacije/ *Quantification limit* 1 mg O_2/L	HRN EN ISO 5815-1:2019 *(ISO 5815-1:12019; EN ISO 5815-1:2019)*
110.	Površinske, podzemne, procjedne i otpadne vode *Surface water, ground water, leachate and waste water*	Određivanje biokemijske potrošnje kisika u vodi nakon 5 dana – Metoda za nerazrijeđene uzorke *Determination of biochemical oxygen demand after 5 days (BOD_5) - Method for undiluted samples* Granica kvantifikacije/ *Quantification limit* 0,5 mg O_2/L	HRN EN 1899-2:2004 *(ISO 5815:1989, modified; EN 1899-2:1998)*
111.	Voda za ljudsku potrošnju, prirodne izvorske, prirodne mineralne, stolne vode, podzemne vode, procjedne, površinske vode, otpadne vode i eluati otpada *Water for human consumption, natural spring water, natural mineral water, table water, ground water, leachate water, surface water, waste water and waste eluates*	Određivanje sadržaja olova, kadmija, nikla, selena i antimona *Determination of Lead, Cadmium, Nickel, Selenium and Antimony* Granica kvantifikacije/ *Quantification limit* Cd: 0,09 µg/L Pb: 0,13 µg/L Ni: 2,3 µg/L Se: 0,6 µg/L Sb: 1,2 µg/L	HRN EN ISO 15586:2008 *(ISO 15586:2003; EN ISO 15586:2003)*

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon**/Range*	**Metoda ispitivanja** *Test method*
112.	Površinske, otpadne, procjedne i podzemne vode *Surface water, waste water, leachate water and ground water*	Određivanje vidljive otpadne tvari u vodi *Determination od visible waste matter in water*	Vlastita metoda *In-house method* SOP-LEK-33 i 37/89 III izdanje / *edition* (2019-05-07)
113.	Otpadne i procjedne vode *Waste water and leachate water*	Određivanje taloživih tvari u vodi volumetrijskom metodom *Determination of settleable solids in water – volumetric method* Granica kvantifikacije/ *Quantification limit* 0,1 mL/L h	SM 23rdEd.2017.2540 F
114.	Voda za ljudsku potrošnju, površinska, podzemna i otpadna voda *Water for human consumption, surface water, ground water and waste water*	Određivanje saliniteta vode *Determination of salinity* Granica kvantifikacije/ *Quantification limit* 0,1 ‰	Vlastita metoda *In-house method* SOP-LEK-31-33 i 37/175 IV. izdanje / *edition* (2021-10-01)
115.		Određivanje alkaliteta vode *Determination of alkalinity* Granica kvantifikacije/ *Quantification limit* 25 mg $CaCO_3$/L	HRN EN ISO 9963-1:1998 *(ISO 9963-1:1994; EN ISO 9963-1:1995)*
116.	Voda za ljudsku potrošnju, prirodne izvorske, prirodne mineralne, stolne vode, podzemne vode, otpadne, procjedne i površinske vode, eluati otpada *Water for human consumption, natural spring water, natural mineral water, table water, ground water, waste water, leachate water and surface water, waste eluates*	Određivanje ukupnih fenola *Determination of total phenols* Granica kvantifikacije/ *Quantification limit* 0,01 mg/L	Vlastita metoda *In-house method* SOP-LEK-31-33, 37 i 38/23 V. izdanje / *edition* (2020-04-07)

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon/****Range*	**Metoda ispitivanja** *Test method*
117.	Površinske, otpadne i podzemne vode *Surface water, waste water and ground water*	Određivanje anionskih surfaktanata u vodi – kiventni test LCK 332, Hach Lange *Determination of anionic surfactants in water – cuvette test LCK 332, Hach Lange* Granica kvantifikacije/ *Quantification limit* 0,05 mg/L	Vlastita metoda *In-house method* SOP-LEK-31-33 i 37/62 IV.izdanje / *edition* (2020-01-29)
118.	Površinske, otpadne i podzemne vode *Surface water, waste water and ground water*	Određivanje neionskih surfaktanata u vodi – kiventni test LCK 333, Hach Lange *Determination of non-ionic surfactants in the water – cuvette test LCK 333, Hach Lange* Granica kvantifikacije/ *Quantification limit* 0,30 mg/L	Vlastita metoda *In-house method* SOP-LEK-31-33 i 37/81 V. izdanje / *edition* (2020-07-10)
119.	Površinske, otpadne i podzemne vode *Surface water, waste water and ground water*	Određivanje kationskih surfaktanata u vodi – fotometrijski test Nanocolor 1-34, Macherey-Nagel *Determination of cationic surfactants in the water – photometric test Nanocolor 1-34, Macherey-Nagel* Granica kvantifikacije/ *Quantification limit* 0,05 mg/L	Vlastita metoda *In-house method* SOP-LEK-31-33 i 37/134 III. izdanje / *edition* (2020-07-10)
120.	Voda za ljudsku potrošnju, prirodne izvorske, prirodne mineralne, stolne vode, podzemne vode, otpadne, procjedne i površinske vode *Water for human consumption, natural spring water, natural mineral water, table water, ground water, waste water, leachate water and surface water*	Određivanje mirisa u vodama *Determination of odor in water*	HRN EN 1622:2008 *(EN 1622:2006)*

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon**/Range*	**Metoda ispitivanja** *Test method*
121.	Voda za ljudsku potrošnju, prirodne izvorske, prirodne mineralne, stolne vode, podzemne vode, i površinske vode *Water for human consumption, natural spring water, natural mineral water, table water, ground water and surface water*	Određivanje okusa u vodama *Determination of taste in water*	HRN EN 1622:2008 *(EN 1622:2006)*
122.	Voda za ljudsku potrošnju, prirodne izvorske, prirodne mineralne, stolne vode, podzemne vode, otpadne, procjedne i površinske vode, eluati otpada i otpad *Water for human consumption, natural spring water, natural mineral water, table water, ground water, waste water, leachate water and surface water, waste eluates and waste*	Određivanje sulfida u vodama *Determination of sulfide in water* Granica kvantifikacije/ *Quantification limit* 0,005 mg/L	HRN ISO 10530:1998 *(ISO 10530:1992)*
123.		Određivanje Cr(VI) u vodama i otpadima *Determination of Cr (VI) in water and waste* Granica kvantifikacije/ *Quantification limit* 0,01 mg/L	HRN ISO 11083:1998 *(ISO 11083:1994)*
124.		Određivanje lako oslobodljivih cijanida *Determination of easily liberatable cyanide* Granica kvantifikacije/ *Quantification limit* 0,01 mg/L	HRN ISO 6703-2:2001 *(ISO 6703-2:1984)*

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon/****Range*	**Metoda ispitivanja** *Test method*
125.	Voda za ljudsku potrošnju, prirodne izvorske, prirodne mineralne, stolne vode, podzemne vode, otpadne, procjedne i površinske vode, eluati otpada i otpad *Water for human consumption, natural spring water, natural mineral water, table water, ground water, waste water, leachate water and surface water, waste eluates and waste*	Određivanju ukupnih cijanida *Determination of total cyanide* Granica kvantifikacije/ *Quantification limit*: 0,01 mg/L	HRN ISO 6703-1:1998 *(ISO 6703-1:1984)*
126.	Voda za ljudsku potrošnju, površinske i podzemne vode *Water for human consumption, surface water and groundwater*	Određivanje tvrdoće vode *Determination of water hardness* Granica kvantifikacije/ *Quantification limit* 10 mg $CaCO_3$/L (0,5 °dH)	HRN ISO 6059:1998 *(ISO 6059:1984)*
127.	Voda za ljudsku potrošnju, prirodne mineralne, prirodne izvorske, stolne vode, podzemne površinske vode, procjedne vode, otpadne vode i eluati otpada *Water for human consumption, natural spring water, natural mineral water, table water, ground water, waste water, leachate water and surface water, waste eluates*	Određivanje ortofosfata i ukupnog fosfora u vodama (UV/VIS spektroskopija) *Determination of orthophosphate and total phosphorus in water (UV/VIS spectroscopic measurement)* Granica kvantifikacije/ *Quantification limit* 0,0045 mg P/L	HRN EN ISO 6878:2008 *(ISO 6878:2004; EN ISO 6878:2004)*
128.		Određivanje sulfita u vodama (spektrofotometrijski) *Determination of sulfite in water (UV/VIS spectroscopic measurement)* Granica kvantifikacije/ *Quantification limit* 0,2 mg/L	Vlastita metoda *In-house method* SOP-LEK-31-33,37,38/156 III. izdanje / *edition* (2020-04-15)

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon/****Range*	**Metoda ispitivanja** *Test method*
129.	Voda za ljudsku potrošnju, prirodne mineralne, prirodne izvorske, stolne vode, podzemne površinske vode, procjedne vode, otpadne vode i eluati otpada *Water for human consumption, natural spring water, natural mineral water, table water, ground water, waste water, leachate water and surface water, waste eluates*	Određivanje silikata u vodama (spektrofotometrijski) *Determination of silicate in water (UV/VIS spectroscopic measurement)* Granica kvantifikacije/ *Quantification limit* 0,02 mg/L	ASTM D859-16 Standard Test Method for Silica in Water
130.		Određivanje određenih alkilfenola, njihovih etoksilata, bisfenola A i pentaklorfenola metodom plinske kromatografije s masenom spektrometrijom *Determination of selected alkylphenols, their ethoxylates, bisphenol A and pentachlorophenol using gas chromatographic method with mass spectrometry* Granica kvantifikacije/ *Quantification limit* Bisfenol A/ *Bisphenol A:* 0,009 µg/L 4-(1,1,3,3-Tetrametilbutil)fenol (*4-tert-oktilfenol)/ 4-(1,1,3,3-Tetramethylbutyl)phenol (4-tert-Octylphenol):* 0,009 µg/L 4-Nonilfenol (*iso-nonilfenol)/ 4-Nonylphenol (iso-Nonylphenol):* 0,05 µg/L 4-(1,1,3,3-Tetrametilbutil)fenol-monoetoksilat, (*4-tert-oktilfenol-monoetoksilat)/ 4-(1,1,3,3-Tetramethylbutyl)phenol-monoethoxylate (4-tert-Octylphenol-monoetoxylate):* 0,005 µg/L 4-Nonilfenol-monoetoksilat (*iso-nonilfenol-monoetoksilat)/ 4-Nonylphenol-monoetoxylate (iso-Nonylphenol-monoetoxylate)* 0,05 µg/L 4-(1,1,3,3-Tetrametilbutil)fenol-dietoksilat (*4-tert-oktilfenol-dietoksilat)/ 4-(1,1,3,3-Tetrametylbutyl)phenol-dietoxylate (4-tert-Octylphenol-dietoxylate)* 0,004 µg/L 4-Nonilfenol-dietoksilat (*iso-nonilfenol-dietoksilat)/ 4-Nonylphenol-dietoxylate (iso-Nonylphenol-dietoxylate)* 0,115 µg/L Pentaklorfenol/ *pentachlorophenol* 0,01 µg/L	HRN EN ISO 18857-2:2012 *(ISO 18857-2:2009; EN ISO 18857-2:2011)*

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon**/Range*	**Metoda ispitivanja** *Test method*
131.	Otpadne, procjedne, podzemne, površinske vode i eluati otpada *Waste water, leachate water and surface water, waste eluates*	Određivanje adsorbilnih organski vezanih halogena (AOX) – Cuvette test LCK 390 *Determination of adsorbable organically bound halogens (AOX)* Granica kvantifikacije/ *Quantification limit* 15 µg/L	Vlastita metoda *In-house method* SOP-LEK-33,37 i 38/127 IV. izdanje / *edition* (2021-02-15)
132.	Površinske vode *Surface water*	Spektrometrijsko određivanje koncentracije klorofila a u vodi *Spectrometric determination of the chlorophyll-a concentration in water* Granica kvantifikacije/ *Quantification limit* 0,1 µg/L	HRN ISO 10260:2001 *(ISO 10260:1992)*
133.	Podzemna, površinska voda i otpadna voda *Surface, ground water and waste water*	Određivanje ftalat estera u vodi metodom GC-MS: dimetil ftalat (DMP), dibutil ftalat (DBP), butil benzil ftalat (BBzP), di (2-etilheksil) ftalat (DEHP), dietil ftalat (DEP), di-n-oktil ftalat (DNOP) *Determination of phtalate esters in water, GC-MS method: dimethyl phthalate (DMP), dibutyl phthalate (DBP), butyl benzyl phthalate (BBzP) , bis (2-ethylhexyl) phthalate (DEHP), diethyl phthalate (DEP), di-n-octil phthalate (DNOP)* Granica kvantifikacije/ *Quantification limit* 0,01 µg/L	SM 23rd Ed. 2017.6410B
134.	Površinska voda *Surface water*	Određivanje prozirnosti vode - polukvantitativna metoda sa Secchijevim diskom *Determination of transparency of water - Semiquantitative method with Secchi disc*	HRN EN ISO 7027-2:2019 *(ISO 7027-2:2019; EN ISO 7027-2:2019)*

REPUBLIKA HRVATSKA - HRVATSKA AKREDITACIJSKA AGENCIJA ZAGREB

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon**/Range*	**Metoda ispitivanja** *Test method*
135.	Otvoreni i zatvoreni provodnici otpadnih voda *Open and closed canals for waste waters*	Određivanje protoka koristeći prijenosni instrument za kontinuirano mjerenje brzine i dubine vode za stacionarno i nestacionarno tečenje u provodnicima sa slobodnim vodnim licem *Determination of flow by using portable instrument for continuous measurement of speed and depth for stacionary and nonstacionary flow in canals with free water face*	Vlastita metoda *In-house method* SOP-LEK-33/187 III. izdanje / *edition* (2020-01-10)
136.	Otpadna voda *Waste water*	Procjena potpune aerobne biološke razgradnje organskih tvari u vodi – statički test (Zahn-Wellensova metoda) *Evalutation of ultimate aerobic biodegradability of organic compounds in aqueous medium – static test Zahn-Wellens test)*	HRN EN ISO 9888:2000 *(EN ISO 9888:1999; ISO 9888:1999)*
137.	Površinske, podzemne, procjedne i otpadne vode *Surface water, ground water, leachate water waste water*	Određivanje ukupnih čvrstih čestica (suhi ostatak) *Determination of total solids (dry weight)* do/*till* 20000 mg/L	SM 23rd Ed. 2017.2540 B
138.	Voda za ljudsku potrošnju, prirodne mineralne, prirodne izvorske, stolne vode, podzemne, površinske vode, procjedne, otpadne vode i eluati otpada *Water for human consumption, natural spring water, natural mineral water, table water, ground water, surface water, leachate water, waste water and waste eluates*	Određivanje formaldehida (UV/vis sprektrofotometrija) *Determination of formaldehyde (UV/vis spectroscopic measurement)* Granica kvantifikacije/ *Quantification limit* 0,02 mg/L	Vlastita metoda *In-house method* SOP-LEK-31-33,37 i 38/77d III. izdanje / *edition* (2020-04-16)

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon/****Range*	**Metoda ispitivanja** *Test method*
139.	Površinske, podzemne, procjedne i otpadne vode, eluat otpada *Surface water, ground water, leachate water and waste water, waste eluates*	Određivanje ukupno otopljenih krutina (TDS) *Determination of total dissolved solids* Granica kvantifikacije/ *Quantification limit* 200 mg/L	HRN EN 15216:2008 *(EN 15216:2007)*
140.	Voda za ljudsku potrošnju, prirodne mineralne, prirodne izvorske, stolne vode, vode za kupanje, podzemne, površinske, procjedne i otpadne vode *Water for human consumption, natural spring water, natural mineral water, table water, bathing water, ground water, surface water, leachate water and waste water*	Određivanje oksidacijsko-redukcijskog potencijala *Oxidation-Reduction Potential Measurement* Raspon/ *Range:* ± 1 200 mV	SM 23rdEd. 2017.2580 B
141.	Voda za ljudsku potrošnju, prirodne mineralne, prirodne izvorske stolne vode, vode za kupanje, podzemne, površinske, procjedne, otpadne vode i eluati otpada *Water for human consumption, natural spring water, natural mineral water, table water, bathing water, ground water, surface water, leachate water, waste water and waste eluates*	Ispitivanje i određivanje boje *Examination and determination of colour* Granica kvantifikacije/ *Quantification limit:* 0,1 m^{-1} (Metoda/ *Method* B)	HRN EN ISO 7887:2012 *(ISO 7887:2011; EN ISO 7887:2011)* Metode/ *Methods* A i / *and* B

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon/****Range*	**Metoda ispitivanja** *Test method*
142.	Podzemne, površinske, procjedne, otpadne vode i tekući otpad Vodeni ekstrakti i eluati Eluati otpada, slatkovodnog sedimenta i tla Kemijske tvari *Ground water, surface water, leachate water, waste water and liquid waste* *Aqueous extracts and leachates* *Eluates of waste, freshwater sediment and soil* *Chemical substances*	Određivanje inhibicije pokretljivosti *Daphnia magna* Straus (Cladocera, Crustacea) – test akutne toksičnosti *Determination of the inhibition of the mobility of Daphnia magna Straus (Cladocera, Crustacea) – Acute toxicity test*	HRN EN ISO 6341:2013 *(ISO 6341:2012; EN ISO 6341:2012)*
143.	Voda za ljudsku potrošnju, prirodne mineralne, prirodne izvorske, stolne vode, podzemne, površinske vode, procjedne, otpadne vode i eluati otpada *Water for human consumption, natural spring water, natural mineral water, table water, ground water, surface water, leachate water, waste water and waste eluates*	Određivanje kratkolančanih polikloriranih alkana C10-C13 u vodi metodom plinske kromatografije s masenom spektrometrijom (GC-MS/MS) *Determination of short-chain polychlorinated alkanes C10-C13 (SCCPs) in water by gas chromatography-mass spectrometry (GC-MS/MS)* Granica kvantifikacije/ *Quantification limit:* 0,10 µg/L	HRN EN ISO 12010:2019 *(ISO 12010:2019; EN ISO 12010:2019)*
144.		Određivanje perfluorooktan sulfonske kiseline metodom tekućinske kromatografije s masenom spektrometrijom (LC-MS/MS) *Determination of perfluorooctanesulfonic acid by liquid chromatography-mass spectrometry (LC-MS/MS)* Granica kvantifikacije/ *Quantification limit:* 0,000178 µg/L	Vlastita metoda *In-house method* SOP-LEK-31-33 i 37/214 I. izdanje / *edition* *(2019-04-24)*

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon/****Range*	**Metoda ispitivanja** *Test method*
145.	Voda za ljudsku potrošnju, prirodne mineralne, prirodne izvorske, stolne vode, podzemne, površinske vode, procjedne, otpadne vode i eluati otpada *Water for human consumption, natural spring water, natural mineral water, table water, ground water, surface water, leachate water, waste water and waste eluates*	Određivanje organokositrenih spojeva (tributilkositreni, dibutilkositreni, monobutilkositreni, difenilkositreni, monofenilkositreni, monooktilkositreni, tetrabutilkositreni, dioktilkositreni, tricikloheksilkositreni, trifenilkositreni spojevi) metodom plinske kromatografije s masenom spektrometrijom (GC-MS/MS) *Determination of organotin coumpounds (tributyltin, dibutyltin, monobutyltin, diphenyltin, monophenyltin, monooctylin, tetrabutyltin, dioctyltin, tricyclohexyltin, triphenyltin compounds) using gas chromatographic method with mass spectrometry (GC-MS/MS)* *Granica kvantifikacije/ Quantification limit:* 0,05 ng/L	HRN EN ISO 17353:2008 *(ISO 17353:2004 EN ISO 17353:2004)*

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon/****Range*	**Metoda ispitivanja** *Test method*
146.	Voda za ljudsku potrošnju, prirodne izvorske, prirodne mineralne, stolne vode, površinske i podzemne vode *Water for human consumption, natural spring water, natural mineral water, table water, surface water and ground water*	Određivanje odabranih elemenata (Al, As, Be, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Sn, Te, Tl, V, Zn) metodom ICP- MS *Determination of selected elements by ICP-MS method* *Granica kvantifikacije/ Quantification limit:* Al – 0,360 µg/L As – 0,042 µg/L Ba – 0,039 µg/L Be – 0,042 µg/L Cd – 0,005 µg/L Co – 0,004 µg/L Cr – 0,030 µg/L Cu – 0,046 µg/L Mn – 0,046 µg/L Mo – 0,002 µg/L Ni – 0,065 µg/L Pb – 0,005 µg/L Sb – 0,002 µg/L Se – 0,034 µg/L Sn – 0,037 µg/L Te – 0,005 µg/L Tl – 0,001 µg/L V – 0,007 µg/L Zn – 0,300 µg/L	HRN EN ISO 17294-2:2016 *(ISO 17294-2:2016; EN ISO 17294-2:2016)*
147.	Voda za ljudsku potrošnju, prirodne izvorske, prirodne mineralne, stolne vode, vode za kupanje, otpadne vode, površinske, procjedne i podzemne vode, eluat otpada *Water for human consumption, natural spring water, natural mineral water, table water, bathing water, waste water, surface water, leachate water and ground water, waste eluate*	Identifikacija organskih spojeva u vodama metodom plinske kromatografije s masenom spektrometrijom (GC-MS/MS) *Identification of organic compounds in water- gas chromatographic method with mass spectrometry(GC-MS/MS)*	Vlastita metoda *In-house method* SOP-LEK-31-33; 37/212 I. izdanje / *edition (2019-01-25)*

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon**/Range*	**Metoda ispitivanja** *Test method*
148.	Voda za ljudsku potrošnju *Water for human consumption*	Uzorkovanje *Sampling*	HRN ISO 5667-5:2011 *(ISO 5667-5:2006)* HRN EN ISO 19458:2008 *(ISO 19458:2006; EN ISO 19458:2006)*
149.	Površinske vode *Surface water*	Uzorkovanje *Sampling*	HRN EN ISO 5667-6:2016 + A11:2020 *(EN ISO 5667-6:2016 + A11:2020)* HRN EN ISO 19458:2008 *(ISO 19458:2006; EN ISO 19458:2006)*
150.	Podzemne vode *Ground water*	Uzorkovanje *Sampling*	HRN ISO 5667-11:2011 *(ISO 5667-11:2009)* HRN EN ISO 19458:2008 *(ISO 19458:2006; EN ISO 19458:2006)*
151.	Vode prirodnih i umjetnih jezera *Lakes water (natural and man made)*	Uzorkovanje *Sampling*	HRN ISO 5667-4:2016 *(ISO 5667-4:2016)* HRN EN ISO 19458:2008 *(ISO 19458:2006; EN ISO 19458:2006)*
152.	Otpadne i procjedne vode *Waste water and leachate water*	Uzorkovanje *Sampling*	HRN ISO 5667-10:2020 *(ISO 5667-10:2020)*
153.	Oborinske vode *Wet deposition*	Uzorkovanje *Sampling*	HRN ISO 5667-8:2000 *(ISO 5667-8:1993)*
154.	Voda za kupanje *Bathing water*	Uzorkovanje *Sampling*	DIN 38402-19:1988 HRN EN ISO 19458:2018 *(ISO 19458:2006; EN ISO 19458:2006)*

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon/****Range*	**Metoda ispitivanja** *Test method*
155.	Zrak *Air*	Određivanje temperature *Determination of temperature* Od/ *from* -15°C do/ *to* 50°C	Vlastita metoda *In-house method* SOP-LEK-40/50a III. izdanje / *edition* (2020-06-26)
156.	Okolišni uzorci u proizvodnji hrane *Environmental samples in food production*	Uzorkovanje s površina upotrebom briseva *Horizontal methods for sampling techniques from surfaces using swabs*	HRN ISO 18593:2019 *(ISO 18593:2018)*
157.	Otpad *Waste*	Karakterizacija otpada – Uzorkovanje otpadnih materijala – 2.dio: Upute za tehnike uzorkovanja *Characterization of waste - Sampling of waste materials - Part 2: Guidance on sampling techniques*	HRI CEN/TR 15310-2:2008 *(CEN/TR 15310-2:2006)*
158.		Određivanje suhog ostatka i sadržaja vode *Determination of dry residue or water content* Granica kvantifikacije/ *Quantification limit* 0,07 % (suhi ostatak / *dry residue)* 0,26 % (sadržaj vode / *water content:* metoda A - sušenje / *method A – drying)* 0,15 % (sadržaj vode / *water content:* metoda B – Karl Fischer titracija / *method B - Karl Fischer Titration)*	Vlastita metoda *In-house method* SOP-LEK-38/90 V. izdanje / *edition (2021-05-10)*
159.		Određivanje gornje kalorijske vrijednosti i izračun donje kalorijske vrijednosti pri stalnom volumenu u krutom i tekućem otpadu *Determination of gross calorific value and calculation of net calorific value at constant volume in solid and liquid waste* Granica kvantifikacije/ *Quantification limit* 3,00 MJ/kg	DIN 51900-1:2000 DIN 51900-2:2003

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon/****Range*	**Metoda ispitivanja** *Test method*
160.	Otpad *Waste*	Određivanje točke paljenja u otpadima metodom u zatvorenoj posudi po Pensky-Martensu *Determination of flash point of waste – Pensky-Martens closed cup method* Granica kvantifikacije/ *Quantification limit* 40,5°C	HRN EN ISO 2719:2016 *(ISO 2719:2016; EN ISO 2719:2016)*
161.		Određivanje polikloriranih bifenila (PCB 18, PCB 28, PCB 31, PCB 44, PCB 52, PCB 101, PCB 118, PCB 138, PCB 149, PCB 153, PCB 170, PCB 180, PCB 194, PCB 209) u otpadnim uljima i izolacijskim tekućinama metodom plinske kromatografije s masenom spektrometrijom (GC-MS) *Determination of polychlorinated biphenyls (PCB 18, PCB 28, PCB 31, PCB 44, PCB 52, PCB 101, PCB 118, PCB 138, PCB 149, PCB 153, PCB 170, PCB 180, PCB 194,i PCB 209) in used oils and insulating liquids using gas chromatographic method with mass spectrometry (GC-MS)* Granica kvantifikacije/ *Quantification limit:* 0,2 mg/kg	Vlastita metoda *In-house method* SOP-LEK-38/02a II. izdanje / *edition* (2021-2-16)
162.	Tekući otpad *Liquid waste*	Određivanje masti i ulja *Determination of grease and oil* Granica kvantifikacije/ *Quantification limit* 400 mg/kg	Vlastita metoda *In-house method* SOP-LEK-38/192 III. izdanje / *edition* (2020-03-16)
163.	Mulj *Sludge*	Uzorkovanje *Sampling*	HRN EN ISO 5667-13:2011 *(ISO 5667-13:2011; EN ISO 5667-13:2011)*

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon**/Range*	**Metoda ispitivanja** *Test method*
164.	Mulj *Sludge*	Određivanje pH vrijednosti *Determination of pH-value* Raspon/ *Range:* pH 3,0-10,0	Vlastita metoda *In-house method* SOP-LEK-38a/24 IV. izdanje / *edition* (2021-02-15)
165.		Određivanje suhog ostatka i sadržaja vode *Determination of dry residue and water content* Granica kvantifikacije/ *Quantification limit* 2,7 % (suhi ostatak / *dry residue)* 2,6 % (sadržaj vode / *water content)*	HRN EN 12880:2005 *(EN 12880:2000)*
166.		Određivanje gornje kalorijske vrijednosti i izračun donje kalorijske vrijednosti pri stalnom volumenu u mulju *Determination of gross calorific value and calculation of net calorific value at constant volume in sludge* Granica kvantifikacije/ *Quantification limit* 3,00 MJ/kg	HRN EN 15170:2010 (EN 15170:2008)
167.	Tlo *Soil*	Uzorkovanje *Sampling*	HRN ISO 18400-102:2017 *(ISO 18400-102:2017)*
168.		Određivanje pH vrijednosti *Determination of pH* Raspon/ *Range:* pH 4,0-10,0	HRN ISO 10390:2005 *(ISO 10390:2005)*
169.		Određivanje suhog ostatka i sadržaja vode *Determination of dry matter and water content* Granica kvantifikacije/ *Quantification limit* 76,6 % (suhi ostatak / *dry residue)* 4,5 % (sadržaj vode / *water content)*	HRN ISO 11465:2004 *(ISO 11465:1993+Cor 1:1994)*

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon**/Range*	**Metoda ispitivanja** *Test method*
170.	Tlo *Soil*	Određivanje atrazina i simazina LC-MS/MS tehnikom *Determination of atrazine and simazine LC-MS/MS technique* Granica kvantifikacije/ *Quantification limit:* 0,002 mg/kg	Vlastita metoda *In-house method* SOP-LEK-39/200 III. izdanje / *edition (2019-09-08)*
171.	Sediment *Sediment*	Uzorkovanje *Sampling*	HRN ISO 5667-12:2017 *(ISO 5667-12:2017)*
172.		Određivanje organokositrenih spojeva metodom plinske kromatografije s masenom spektrometrijom (GC-MS/MS) (tributilkositreni, dibutilkositreni, monobutilkositreni, difenilkositreni, monofenilkositreni, monooktilkositreni, tetrabutilkositreni, dioktilkositreni, tricikloheksilkositreni, trifenilkositreni spojevi) *Determination of organotin compounds using gas chromatographic method with mass spectrometry (GC-MS/MS) (tributyltin, dibutyltin, monobutyltin, diphenyltin, monophenyltin, monooctylin, tetrabutyltin, dioctyltin, tricyclohexyltin, triphenyltin compounds)* Granica kvantifikacije/ *Quantification limit:* 0,5 µg/kg	Vlastita metoda *In-house method* SOP-LEK-38/204 II. izdanje / *edition (2021-06-14)* modificirana / *modified* HRN EN ISO 23161:2018 *(ISO 23161:2018; EN ISO 23161:2018)*

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon/****Range*	**Metoda ispitivanja** *Test method*
173.	Tlo, otpad, mulj i sediment *Soil, waste, sludge and sediment*	Određivanje BTEXa (benzena, toluena, etilbenzena i ksilena) i heksaklorbutadiena metodom analize para iznad otopine (Headscape) plinskom kromatografijom sa masenom spektrometrijom (GC-MS) *Determination of BTEX (benzene, toluene, ethylbenzene and xylenes) and hexachlorobutadiene method Headspace gas chromatography mass spectrometry (GC-MS)* Granica kvantifikacije/ *Quantification limit* 0,001 mg/kg	Vlastita metoda *In-house method* SOP-LEK-38,39/142 IV. izdanje / *edition* (2019-11-06)
174.		Određivanje organskog i ukupnog ugljika suhim spaljivanjem *Determination of organic and total carbon after dry combustion* Granica kvantifikacije/ *Quantification limit* 0,26 %	HRN ISO 10694:2004 *(ISO 10694:1995)*
175.		Određivanje policikličkih aromatskih ugljikovodika (PAH: naftalen; acenaftilen; acenaften; fluoren; fenantren; antracen; fluoranten; piren; benzo[a]antracen; krizen; benzo[b]fluoranten; benzo[k]fluoranten; benzo[a]piren; indeno[1,2,3-c,d]piren; dibenzo[a,h]antracen; benzo[g,h,i]perilen) s uporabom plinske kromatografije sa masenom spektrometrijom (GC/MS) *Determination of polycyclic aromatic hydrocarbons (PAH:Naphthalene, Acenapthylen, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Chrysene, Benzanthracene, Benzo [a]pyrene, Benzo[b]fluoranhtene, Benzo[k]fluoranhten, Indeno[1,2,3-cd]pyrene, Dibenzo[a,h]anthracene, Benzo[g,h,i]perylene) using gas chromatography mass spectrometry (GC/MS)* Granica kvantifikacije/ *Quantification limit* 0,009 mg/kg	HRN EN 15527:2008 *(EN 15527:2008)*

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon**/Range*	**Metoda ispitivanja** *Test method*
176.	Tlo, otpad, mulj i sediment *Soil, waste, sludge and sediment*	Određivanje polikloriranih bifenila (PCB 28, PCB 52, PCB 101, PCB 118, PCB 138, PCB 141, PCB 153, PCB 180) metodom plinske kromatografije s masenom spektrometrijom (GC-MS) *Determination of polychlorinated biphenyls (PCB 28, PCB 52, PCB 101, PCB 118, PCB 141, PCB 138, PCB 153, PCB 180) by using capillary gas chromatography with mass spectrometric detection (GC-MS)* Granica kvantifikacije/ *Quantification limit* 0,010 mg/kg	HRN EN 17322:2020 *(EN 17322:2020)*
177.		Određivanje sadržaja ugljikovodika u rasponu C10 (n-dekan) do C40 (n-tetrakontan) metodom plinske kromatografije *Determination of content of hydrocarbon in the range C10 (n-Decane) to C40 (n-Tetracontane) by gas chromatography* Granica kvantifikacije/ *Quantification limit* 125 mg/kg	HRN EN ISO 16703:2012 *(ISO 16703:2009)* HRN EN 14039:2005 *(EN 14039:2004)*
178.		Određivanje sadržaja ugljika, dušika i sumpora *Determination of carbon, nitrogen and sulfur* Granica kvantifikacije/ *Quantification limit:* 0,010 %	HRN ISO 13878:2004 *(ISO 13878:2004)*
179.	Otpad, mulj, sediment, tlo, biootpad *Waste, sludge, sediment, soil and biowaste*	Određivanje gubitka žarenjem suhe tvari i pepela u otpadu, mulju, sedimentima, tlu i biootpadu *Determination of loss on ignition in waste, sludge, sediment, soil and biowaste* Granica kvantifikacije/ *Quantification limit* 0,01 %	HRN EN 15169:2008 *(EN 15169:2007)* HRN EN 15935:2013 (EN 15935:2012)

Br. *No.*	Materijali/Proizvodi *Materials/Products*	Vrsta ispitivanja/Svojstvo *Type of test/Property* ***Raspon**/Range*	Metoda ispitivanja *Test method*
180.	Tlo, sediment *Soil, sediment*	Određivanje organokloriranih pesticida metodom plinske kromatografije s masenom spektrometrijom GC-MS/MS (kloroneb, pentaklorbenzen (PeCB), alfa-BHC (alfa-HCH), heklsaklorbenzen (HCB), pentakloroanisol, beta-BHC (beta-HCH), gama-BHC (gama-HCH), delta-BHC (delta-HCH), endosulfan eter, heptaklor, pentaklorotioanisol, aldrin, 4,4-diklorobenzofenon, fenson, izodrin, heptaklor epoksid (izomer B), klorbenzid, trans-klordan, 2,4-DDE (o,p-DDE), endosulfan I (endosulfan alfa), cis-klordane, trans-nonaklor, klorfenson (Ovex), dieldrin, 4,4-DDE (p,p-DDE), 2,4-DDD (o,p-DDD), endrin, endosulfan II (endosulfan beta), 4,4-DDD (p,p-DDD), 2,4-DDT (o,p-DDT), cis-nonaklor, endrin aldehid, 4,4-methoksiklor olefin, endosulfan sulfat, 4,4-DDT (p,p-DDT), 2,4-metoksiklor, endrin keton, tetradifon, mirex) *Determination of organochlorine compounds by gas chromatography-mass spectrometry (GC-MS/MS) (Chloroneb, Pentachlorobenzene (PeCB), alpha-BHC (alpha-HCH), Hexachlorobenzene (HCB), Pentachloroanisole, beta-BHC (beta-HCH), gamma-BHC (gamma-HCH), delta-BHC (delta-HCH), Endosulfan ether, Heptachlor, Pentachlorothioanisole, Aldrin, 4,4-dichlorobenzophenone, Fenson, Isodrin, Heptachlor epoxide (isomer B), Chlorbenside, trans-chlordane, 2,4-DDE (o,p-DDE), Endosulfan I (Endosulfan alpha), cis-Chlordane, trans-Nonachlor, Chlorfenson (Ovex), Dieldrin, 4,4-DDE (p,p-DDE), 2,4-DDD (o,p-DDD), Endrin, Endosulfan II (Endosulfan beta), 4,4-DDD (p,p-DDD), 2,4-DDT (o,p-DDT), cis-Nonachlor, Endrin aldehyde, 4,4-methoxychlor olefin, Endosulfan sulfate, 4,4-DDT (p,p-DDT), 2,4-methoxychlor, Endrin ketone, Tetradifon, Mirex)* Granica kvantifikacije / *Quantification limit:* *0,005 mg/kg*	Vlastita metoda *In-house method* SOP-LEK-38,39/01 II. izdanje / *edition* (2021-03-14)

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon**/Range*	**Metoda ispitivanja** *Test method*
181.	Kruta oporabljena goriva *Solid recovered fuels*	Uzorkovanje iz skladišta *Sampling from warehouses*	HRN EN ISO 21645:2021 *(ISO 21645:2021; EN ISO 21645:2021)*
182.		Određivanje sadržaja klora *Determination of chlorine content* Granica kvantifikacije/ *Quantification limit* 1000 mg/kg	HRN EN 15408:2011 *(EN 15408:2011)*
183.		Određivanje elemenata u tragovima optičkom emisijskom spektrometrijom induktivno vezane plazme (ICP-OES) *Determination of the trace elements by inductively coupled plasma optical emission (ICP-OES)* Granica kvantifikacije/ *Quantification limit* As - 2,54 mg/kg Ba - 0,38 mg/kg Be - 0,05 mg/kg Cd - 0,19 mg/kg Co - 0,66 mg/kg Cr - 0,07 mg/kg Cu - 0,13 mg/kg Hg - 0,06 mg/kg Mo - 0,50 mg/kg Mn - 0,16 mg/kg Ni - 0,81 mg/kg Pb - 2,15 mg/kg Sb - 3,24 mg/kg Se - 2,19 mg/kg Tl - 2,30 mg/kg V - 0,93 mg/kg Zn - 1,10 mg/kg	HRN EN 15411:2011 *(EN 15411:2011)*

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon/****Range*	**Metoda ispitivanja** *Test method*
184.	Kruta oporabljena goriva *Solid recovered fuels*	Određivanje sadržaja pepela *Determination of the ash content* Granica kvantifikacije/ *Quantification limit* 0,01 %	HRN EN ISO 21656:2021 *(ISO 21656: 2021; EN ISO 21656:2021)*
185.		Određivanje sadržaja vlage *Determination of the moisture content* Granica kvantifikacije/ *Quantification limit* 0,01 %	HRN EN ISO 21660-3:2021 *(ISO 21660-3:2021; EN ISO 21660-3:2021)* *HRS CEN/TS* 15414-1:2010 *(CEN/TS 15414-1:2010)* *HRS CEN/TS* 15414-2:2010 *(CEN/TS 15414-2:2010)*
186.		Određivanje sadržaja biomase *Determination of the biomass content* Granica kvantifikacije/ *Quantification limit* 0,10 %	HRN EN ISO 21644:2021 *(ISO 21644:2021; EN ISO 21644:2021)*
187.		Određivanje udjela ugljika, vodika, dušika i sumpora *Determination of carbon, hydrogen, nitrogen and sulfur* Granica kvantifikacije/ *Quantification limit* 0,010 %	Vlastita metoda *In-house method* SOP-LEK-42/171 IV. izdanje / *edition* (2021-04-05) modificirana / *modified* HRN EN ISO 21663:2021 *(ISO 21663:2020; EN ISO 21663:2020)*
188.		Određivanje gornje kalorijske vrijednosti i izračun donje kalorijske vrijednosti pri stalnom volumenu *Determination of gross calorific value and calculation of net calorific value at constant volume* Granica kvantifikacije/ *Quantification limit* 3,00 MJ/kg	HRN EN 15400:2011 *(EN 15400:2011)*

REPUBLIKA HRVATSKA - HRVATSKA AKREDITACIJSKA AGENCIJA 2 ZAGREB

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon**/Range*	**Metoda ispitivanja** *Test method*
189.	Kruta oporabljena goriva *Solid recovered fuels*	Određivanje raspodjele veličine čestica *Determination od particle size distribution*	HRN EN 15415-1:2011 (*EN 15415-1:2011*)
190.	Naftni proizvodi *Petroleum products*	Određivanje sadržaja ugljika, vodika i dušika u otpadnim uljima *Determination of carbon, hydrogen and nitrogen content in petroleum products* Granica kvantifikacije/ *Quantification limit* 0,010 %	Vlastita metoda *In-house method* SOP-LEK-43/171 VI. izdanje / *edition* (2021-03-26) modificirana / *modified* ASTM D5291-16 Metoda/ *Method* D

Br. *No.*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* ***Raspon**/Range*	**Metoda ispitivanja** *Test method*
191.	Mišićno tkivo *Muscle tissue*	Metoda umjetne probave za pretragu mesa na trihinelu *Method of artificial digestion for detection trichinella larvae in muscule tissue*	Vlastita metoda *In-house method* SOP-LT-01/215 I. izdanje / edition (2019-05-06) PROVEDBENA UREDBA KOMISIJE (EU) 2015/1375 od 10.8.2015 Provedbena Uredba Komisije (EU) 2015/1375, Prilog 1. Metode pretraživanja: Referentna metoda pretraživanja: Metoda umjetne probave na magnetskoj miješalici za skupne uzorke *COMMISSION IMPLEMENTING REGULATION (EU) 2015/1375 of 10 August 2015 laying down specific rules on official controls for Trichinella in meat, ANNEX I. REFERENCE METHOD OF DETECTION Magnetic stirrer method for pooled sample digestion*

Pripreme analitičkih uzorka / *Preparation of analitycal samples*:

- Tlo, muljevi, sedimenti / *Soil, sludges, sediments*: HRN ISO 14869-2:2004 *(ISO 14869-2:2002)*
- Tlo / *Soil*: HRN ISO 11466:2004 *(ISO 11466:1995)*
- Kruta oporabljena goriva / *Solid recovered fuels*: HRN EN 15443:2011 *(EN 15443:2011)*
- Otpad /*Waste*: HRN EN 13657:2008 *(EN 13657:2002)*; HRN EN 12457-4:2005 *(EN 12457-4:2002)*
- Muljevi, sedimenti/ *Sludges, sediments*: vlastita metoda /*In-house method* SOP-LEK-38c/6c, X. izdanje/*edition*, 2020-05-04

FLEKSIBILNO PODRUČJE AKREDITACIJE/*FLEXIBLE SCOPE OF ACCREDITATION*

Oznaka/ *Identification*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* *Raspon/Range*	**Tehnika ispitivanja** *Test technique*	**Metoda ispitivanja** *Test method*
A1	Voda *Water*	Određivanje odabranih elemenata *Determination of selected elements*	ICP OES	*Prema popisu na* http://www.bioinstitut.hr/djelatnosti/ *According the list of methods available on* http://www.bioinstitut.hr/djelatnosti/
A2	*Eluat otpada* *Waste eluat*			
A3	Mulj, sediment *Sludge, sediment*	Određivanje odabranih elemenata *Determination of selected elements*	ICP OES	*Prema popisu na* http://www.bioinstitut.hr/djelatnosti/ *According the list of methods available on* http://www.bioinstitut.hr/djelatnosti/
A4	Otpad *Waste*	Određivanje odabranih elemenata *Determination of selected elements*	ICP OES	*Prema popisu na* http://www.bioinstitut.hr/djelatnosti/ *According the list of methods available on* http://www.bioinstitut.hr/djelatnosti/
A5	Tlo *Soil*	Određivanje odabranih elemenata *Determination of selected elements*	ICP OES	*Prema popisu na* http://www.bioinstitut.hr/djelatnosti/ *According the list of methods available on* http://www.bioinstitut.hr/djelatnosti/

Oznaka/ *Identification*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* *Raspon/Range*	**Tehnika ispitivanja** *Test technique*	**Metoda ispitivanja** *Test method*
A6	Voda *Water*	Određivanje hlapljivih organskih spojeva metodom analize para iznad otopine (headspace) plinskom kromatografijom s masenom spektrometrijom (GC-MS) *Determination of volatile organic compounds in waters by headspace method gas chromatography/ mass spectrometry (GC/MS)*	GC-MS	*Prema popisu na* http://www.bioinstitut.hr/djelatnosti/ *According the list of methods available on* http://www.bioinstitut.hr/djelatnosti/
A7	Voda *Water*	Određivanje pesticida u vodama metodom plinske kromatografije s masenom spektrometrijom *Determination of pesticide residues in water – gas chromatographic method with mass spectrometry*	GC-MS/MS	*Prema popisu na* http://www.bioinstitut.hr/djelatnosti/ *According the list of methods available on* http://www.bioinstitut.hr/djelatnosti/
A8	Voda *Water*	Određivanje odabranih sredstava za zaštitu bilja u vodi metodom tekućinske kromatografije s masenom spektrometrijom *Determination of selected plant treatment agents in water – liquid chromatographic method with mass spectrometry*	LC-MS/MS	*Prema popisu na* http://www.bioinstitut.hr/djelatnosti/ *According the list of methods available on* http://www.bioinstitut.hr/djelatnosti/

REPUBLIKA HRVATSKA - HRVATSKA AKREDITACIJSKA AGENCIJA 2 ZAGREB

Oznaka/ *Identification*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* *Raspon/Range*	**Tehnika ispitivanja** *Test technique*	**Metoda ispitivanja** *Test method*
A9	Voće i povrće s visokim udjelom vode *Fruits and vegetables – high water content* Voće i povrće s visokim udjelom kiseline i visokim udjelom vode *Fruits and vegetables – high acid content and high water content* Voće i povrće s visokim udjelom šećera i niskim udjelom vode *Fruits and vegetables – high sugar and low water content* Voće i povrće s visokim udjelom ulja i srednjim te niskim udjelom vode *Fruits and vegetables – high oil content and intermediate or low water content* Žitarice i proizvodi od žitarica – visoki udio škroba i/ili proteina te niski udio vode i masti *Cereals and cereals products – high starch and/or protein content and low water and fat content* "Teške ili jedinstvene sirovine" *"Difficult or unique commodities"*	Multirezidualna metoda za određivanje ostataka pesticida u hrani biljnog podrijetla metodom tekućinske kromatografije s masenom spektrometrijom (LC-MS/MS) *Multimethod for the determination of pesticide residues in foods of plant origin – liquid chromatographic method with mass spectrometry (LC-MS/MS)*	LC-MS/MS	*Prema popisu na* http://www.bioinstitut.hr/djelatnosti/ *According the list of methods available on* http://www.bioinstitut.hr/djelatnosti/

Oznaka/ *Identification*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* *Raspon/Range*	**Tehnika ispitivanja** *Test technique*	**Metoda ispitivanja** *Test method*
A10	Voće i povrće s visokim udjelom vode *Fruits and vegetables – high water content* Voće i povrće s visokim udjelom kiseline i visokim udjelom vode *Fruits and vegetables – high acid content and high water content* Voće i povrće s visokim udjelom šećera i niskim udjelom vode *Fruits and vegetables – high sugar and low water content* Voće i povrće s visokim udjelom ulja i srednjim te niskim udjelom vode *Fruits and vegetables – high oil content and intermediate or low water content* Žitarice i proizvodi od žitarica – visoki udio škroba i/ili proteina te niski udio vode i masti *Cereals and cereals products – high starch and/or protein content and low water and fat content* "Teške ili jedinstvene sirovine" *"Difficult or unique commodities"*	Multirezidualna metoda za određivanje ostataka pesticida u hrani biljnog podrijetla metodom plinske kromatografije s masenom spektrometrijom (GC-MS/MS) *Multimethod for the determination of pesticide residues in foods of plant origin – gas chromatographic method with mass spectrometry (GC-MS/MS)*	GC-MS/MS	*Prema popisu na* http://www.bioinstitut.hr/djelatnosti/ *According the list of methods available on* http://www.bioinstitut.hr/djelatnosti/

REPUBLIKA HRVATSKA – HRVATSKA AKREDITACIJSKA AGENCIJA – ZAGREB 2

Oznaka/ *Identification*	**Materijali/Proizvodi** *Materials/Products*	**Vrsta ispitivanja/Svojstvo** *Type of test/Property* *Raspon/Range*	**Tehnika ispitivanja** *Test technique*	**Metoda ispitivanja** *Test method*
A11	Mulj, sediment, tlo, otpad *Sludge, sediment, soil, waste*	Određivanje žive *Determination of mercury*	AAS (FIMS)	*Prema popisu na* http://www.bioinstitut.hr/djelatnosti/ *According the list of methods available on* http://www.bioinstitut.hr/djelatnosti/

Pripreme analitičkih uzorka / *Preparation of analitycal samples*: Prema popisu na http://www.bioinstitut.hr/djelatnosti/ / According the list of methods available on http://www.bioinstitut.hr/djelatnosti/

Napomena/*Note:*
ICP OES - optička emisijska spektroskopija induktivno vezane plazme (ICP*)/ICP OES inductively coupled plasma optical emission spectroscopy*
GC-MS – plinska kromatografija s masenom spektrometrijom/ *GC-MS gas chromatography/ mass spectrometry*
LC-MS/MS – tekućinska kromatografija s masnom spektrometrijom/masenom spektrometrijom/ *liquid chromatography/ mass spectrometry/mass spectrometry*
GC-MS/MS – plinska kromatografija s masnom spektrometrijom/masenom spektrometrijom/ *gas chromatography/ mass spectrometry/mass spectrometry*

Fleksibilnim područjem akreditacije dopušta se laboratoriju primjena metoda ispitivanja na materijale/proizvode, vrstu ispitivanja/svojstvo i raspone unutar područja, u skladu s dokumentiranim i odobrenim postupcima laboratorija./
Flexible scope allows laboratory application test of methods for materials/products, type of test/property and ranges within the scope, in accordance with the laboratory's documented and approved procedures.
Važeći popis akreditiranih metoda iz fleksibilnog područja akreditacije dostupan je na http://www.bioinstitut.hr/djelatnosti/ / *The valid list of accredited methods in the flexible scope is available on* http://www.bioinstitut.hr/djelatnosti/