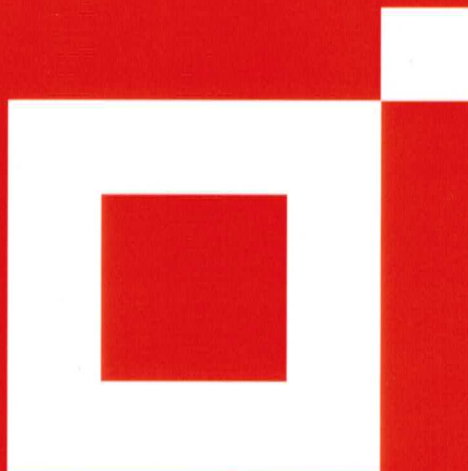




Potvrda o akreditaciji Accreditation Certificate

Ovime se utvrđuje da je
This is to recognize that

Nastavni zavod za javno zdravstvo "Dr. Andrija Štampar"
Služba za zaštitu okoliša i zdravstvenu ekologiju
Mirogojska 16, HR-10000 Zagreb

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, alkoholnih pića,
predmeta opće uporabe, voda, mikrobiološke čistoće objekata,
otpada, tla, muljeva, eluata, krutih oporabljenih goriva, zraka i
građevnih proizvoda
Uzorkovanje hrane, voda, tla, muljeva, otpada i zraka i uzorkovanje
krutih oporabljenih goriva
Testing of food, animal feeding stuffs, wine, alcoholic drinks, objects of
common use, waters, microbiological cleanliness of facilities, waste, soil,
sludges, eluate, solid recovered fuels, air and
construction products
Sampling of food, waters, soil, sludge, waste and air and sampling of solid
recovered fuels

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.: 1040
Klasa/Ref.No.: 383-02/18-30/025
Urbroj/Iđ.No.: 569-02/6-21-13
Zagreb, 2021-02-05

Akreditacija istječe/Accreditation expiry: 2023-11-26
Prva akreditacija/Initial accreditation: 2003-12-08

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.



Hrvatska akreditacijska agencija
Croatian Accreditation Agency

PRILOG POTVRDI O AKREDITACIJI br: 1040*Annex to Accreditation Certificate Number:*

Klasa/Ref. No.: 383-02/18-30/025

Urbroj/Id. No.: 569-02/6-21-14

Datum izdanja priloga /Annex Issued on: 2021-02-05

Zamjenjuje prilog/Replaces Annex:

Klasa/Ref. No.: 383-02/18-30/025

Urbroj/Id. No.: 569-02/6-19-4

Datum izdanja priloga /Annex Issued on: 2019-09-18

Norma: HRN EN ISO/IEC 17025:2017*Standard: (ISO/IEC 17025:2017; EN ISO/IEC 17025:2017)***Akreditacija istječe: 2023-11-26***Accreditation expiry:***Prva akreditacija: 2003-12-08***Initial accreditation:***Akreditirani laboratorij***Accredited laboratory***Nastavni zavod za javno zdravstvo „Dr. Andrija Štampar“****Služba za zaštitu okoliša i zdravstvenu ekologiju**

Mirogojska 16, HR-10000 Zagreb

Područje akreditacije:*Scope of accreditation:***Ispitivanje hrane, hrane za životinje, vina, alkoholnih pića, predmeta opće uporabe, voda, mikrobiološke čistoće objekata, otpada, tla, muljeva, eluata, krutih oporabljenih goriva, zraka i građevnih proizvoda****Uzorkovanje hrane, voda, tla, muljeva, otpada i zraka i uzorkovanje krutih oporabljenih goriva***Testing of food, animal feeding stuffs, wine, alcoholic drinks, objects of common use, waters, microbiological cleanliness of facilities, waste, soil, sludges, eluate, solid recovered fuels, air and construction products**Sampling of food, waters, soil, sludge, waste and air and sampling of solid recovered fuels*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

v. d. ravnateljica:

Acting Director General:**Ankica Barišić, dipl. ing.**

**HAA**Hrvatska akreditacijska agencija
Croatian Accreditation Agency

Prilog potvrdi o akreditaciji
Annex to the Accreditation Certificate
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Zamjenjuje prilog od/Replaces Annex dated:

1040

2021-02-05

2019-09-18

PODRUČJE AKREDITACIJE / SCOPE OF ACCREDITATION

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range ili/or Granica kvantifikacije/ Quantification limit	Metoda ispitivanja Test method
I - Hrana i hrana za životinje / Food and animal feeding stuffs			
1.	Hrana Food	Uzorkovanje za kontrolu količine mikotoksina Sampling for the control of the levels of mycotoxins	Uredba Komisije (EZ) br. 401/2006 Commission Regulation (EU) No 401/EC/2006 Uredba Komisije (EZ) br. 178/2010 Commission Regulation (EU) No 178/EC/2010 Uredba Komisije (EZ) br. 519/2014 Commission Regulation (EU) No 519/EC/2014
2.	Hrana pripremljena kod subjekata koji posluju s hranom Food prepared by the entities that work with food	Uzorkovanje hrane u svrhu mikrobioloških ispitivanja Food sampling for microbiological analysis	Vodič za uzorkovanje hrane u svrhu analize NMKL Procedure No. 12: Guide on sampling for analysis of food, 2014. HRS CEN ISO/TS 17728:2015 (CEN ISO/TS 17728:2015)
3.	Uzorkovanje s površina Sampling from surfaces	Horizontalna metoda za postupke uzorkovanja s površina upotrebom otisaka i briseva Horizontal method for sampling techniques from surfaces using dipslides and swabs	HRN EN ISO 18593:2019 (ISO 18593:2018; EN ISO 18593:2018)
4.	Hrana biljnog porijekla Food of plant origin	Uzorkovanje za kontrolu ostataka pesticida Sampling for the control of pesticide residues	Direktiva Komisije (EZ) br. 63/2002 Commission directive 2002/63/EC



Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range ili/or Granica kvantifikacije/ Quantification limit	Metoda ispitivanja Test method
5.	Hrana i hrana za životinje Food and animal feeding stuffs	Horizontalna metoda za otkrivanje <i>Escherichia coli</i> O157 <i>Horizontal method for the detection of Escherichia coli O157</i>	HRN EN ISO 16654:2003 (ISO 16654:2001; EN ISO 16654:2001)
6.		Metoda određivanja broja kolonija <i>Listeria monocytogenes</i> i drugih <i>Listeria</i> spp. <i>Enumeration of Listeria monocytogenes and of Listeria spp.</i>	HRN EN ISO 11290-2:2017 (ISO 11290-2:2017; EN ISO 11290-2:2017)
7.		Dokazivanje prisutnosti <i>Salmonella</i> spp. <i>Detection of Salmonella spp.</i>	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)
8.		Vodoravni postupak brojenja koagulaza - pozitivnih stafilokoka (<i>Staphylococcus aureus</i> i druge vrste) – 2. dio: Postupak primjene agara s fibrinogenom i plazmom kunića <i>Horizontal method for the enumeration of coagulase-positive staphylococci (Staphylococcus aureus and other species) – Part 2: Technique using rabbit plasma fibrinogen agar medium</i>	HRN EN ISO 6888-2:2004 (ISO 6888-2:1999 + Amd 1:2003; EN ISO 6888-1:1999 + A1:2003)
9.		Određivanje broja kolonija Enterobacteriaceae <i>Enumeration of Enterobacteriaceae</i>	HRN EN ISO 21528-2:2017 (ISO 21528-2:2017; EN ISO 21528-2:2017)

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range ili/or Granica kvantifikacije/ Quantification limit	Metoda ispitivanja Test method
10.	Hrana i hrana za životinje Food and animal feeding stuffs	Mikrobiologija lanca hrane - Horizontalna metoda za određivanje broja mikroorganizama - 1. dio: Određivanje broja kolonija pri 30 °C tehnikom zalijevanja podloge; 2. dio: Određivanje broja kolonija pri 30 °C tehnikom nasađivanja na površinu podloge <i>Microbiology of the food chain - Horizontal method for the enumeration of microorganisms – Part 1: Colony-count technique at 30 degrees C by the pour plate technique; Horizontal method for the enumeration of microorganisms – Part 2: Colony-count at 30 degrees C by surface plating technique</i>	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)
11.		Mikrobiologija hrane i stočne hrane – metoda brojenja beta-glucuronidasa pozitivne Escherichia coli – 2 dio: brojenje kolonija pri 44 °C uporabom 5-bromo-4-chloro-3-indolyl beta-D-glucuronide <i>Microbiology of food and animal feeding stuffs – Horizontal method for the enumeration of beta-glucuronidase – positive Escherichia coli – Part 2: Colony- count technique at 44 degrees C using 5-bromo-4-chloro-3-indolyl beta-D-glucuronide</i>	HRN ISO 16649-2:2001 (ISO 16649-2:2001)

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Zamjenjuje prilog od/Replaces Annex dated:

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12.	Hrana i hrana za životinje Food and animal feeding stuffs	Dokazivanje prisutnosti <i>Listeria monocytogenes</i> i drugih <i>Listeria spp.</i> <i>Detection of Listeria monocytogenes and other Listeria spp.</i>	HRN EN ISO 11290-1:2017 (ISO 11290-1:2017; EN ISO 11290-1:2017)
13.		Brojenje kvasaca i plijesni iz uzoraka hrane i hrane za životinje <i>Enumeration of yeasts and molds from samples of food and feed samples</i>	HRN ISO 21527-1:2012 (ISO 21527-1:2008) HRN ISO 21527-2:2012 (ISO 21527-2:2008)
14.		Dokazivanje prisutnosti <i>Cronobacter spp.</i> <i>Detection of Cronobacter spp.</i>	HRN EN ISO 22964:2017 (ISO 22964:2017; EN ISO 22964:2017)
15.	Hrana Food	Određivanje stafilokoknog enterotoksina VIDAS SET 2 <i>Detection of Staphylococcal Enterotoksins VIDAS SET 2</i>	AOAC 19 th Izdanje/Edition 2012 2007.06 Final Action 2010
16.		Određivanje sirovih vlakana <i>Determination of crude fiber</i>	AOAC 20 th Edition, 2016 962.09
17.		Određivanje količine dušika metodom po Kjeldahlu <i>Determination of nitrogen content by Kjeldahl method</i>	Vlastita metoda <i>In-house method</i> SOP-93-054 Izdanje/Edition 04 2017-11-13 Modificirana/ <i>Modified</i> HRN ISO 1871:2017 (ISO 1871:2009) HRN ISO 937:1999 (ISO 937:1978)
18.		Određivanje ukupnog sadržaja masti <i>Determination of total fat content</i>	Vlastita metoda <i>In-house method</i> SOP-95-054 Izdanje/Edition 02 2014-04-25
19.			

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20.	Hrana Food	Određivanje sadržaja vode sušenjem pri temp. 100-130 °C / 2-4 h Determination of moisture content by drying at temp. 100-130 °C / 2-4 h	Vlastita metoda In-house method SOP-98-054 Izdanje/Edition 03 2018-09-10 Modificirana/ Modified AOAC 20th Edition, 2016 HRN EN ISO 712:2010 (ISO 712:2009; EN ISO 712:2009)
21.	Hrana Food	Određivanje ukupnog pepela spaljivanjem Determination of ash yield by incineration	Vlastita metoda In-house method SOP-325-054 Izdanje/Edition 01 2015-03-20
22.	Mlijeko i mliječni proizvodi Milk and milk fat products	Određivanje udjela cis-, trans-zasićenih, jednostruko i višestruko nezasićenih masnih kiselina plinskom kromatografijom Determination of the content of cis-, trans-, saturated, mono- and polyunsaturated fatty acids by gas chromatography	HRN ISO 15884:2003 (ISO 15884:2002) HRN ISO 15885:2003 (ISO 15885:2002)



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23.	Hrana osim mlijeka i mliječnih proizvoda Food except milk and milk fat products	Određivanje udjela cis-, trans-zasićenih, jednostruko i višestruko nezasićenih masnih kiselina plinskom kromatografijom <i>Determination of the content of cis-, trans-, saturated, mono- and polyunsaturated fatty acids by gas chromatography</i>	HRN EN ISO 12966-1:2015 (ISO 12966-1:2014; EN ISO 12966-1:2014) HRN EN ISO 12966-1:2015/Ispr.1:2015 (EN ISO 12966-1:2014/AC:2015) HRN EN ISO 12966-2:2017 (ISO 12966-2:2017; EN ISO 12966-2:2017) HRN EN ISO 12966-4:2015 (ISO 12966-4:2015; EN ISO 12966-4:2015)
24.	Meso i mesni proizvodi Meat and meat products	Određivanje fosfora spektrofotometrijskom metodom <i>Determination of by spectrophotometric method</i>	Vlastita metoda In-house method SOP-100-054 Izdanje/Edition 01 2013-11-15
25.	Mlijeko i tekući mliječni proizvodi Milk and liquid milk products	Određivanje udjela masti <i>Determination of fat content</i>	Vlastita metoda In-house method SOP-295-054 Izdanje/Edition 01 2017-06-10
26.	Jestiva ulja i masti Edible oil and fat	Određivanje kiselosti u uljima (slobodnih masnih kiselina izraženih kao oleinska kiselina) <i>Determination of acid value and acidity</i>	HRN EN ISO 660:2020 (ISO 660:2020; EN ISO 660:2020)
27.	Jestiva ulja i masti Edible oil and fat	Određivanje peroksidnog broja <i>Determination of peroxide value</i>	HRN EN ISO 3960:2017 (ISO 3960:2017; EN ISO 3960:2017)

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range ili/or Granica kvantifikacije/ Quantification limit	Metoda ispitivanja Test method
28.	Med Honey	Određivanje aktivnosti diastaze spektrofotometrijskom metodom <i>Determination of diastase activity by spectrophotometric method</i>	Harmonized Methods of the International Honey Commission (2009) Metoda/ Method 6.2
29.		Određivanje relativnog sadržaja peluda <i>Determination of relative pollen content</i>	DIN 10760:2002-05
30.		Određivanje električne vodljivosti elektrokemijskom metodom <i>Determination of electrical conductivity by electrometric method</i>	Harmonized Methods of the International Honey Commission (2009) Metoda/Method 2
31.		Određivanje količine vode refraktometrijskom metodom <i>Determination of moisture content by refractive index</i>	Harmonized Methods of the International Honey Commission (2009) Metoda/Method 1
32.		Određivanje hidroksimetilfurfurala (HMF) metodom tekućinske kromatografije visoke djelotvornosti (HPLC) <i>Determination of hydroxymethylfurfural (HMF) by high performance liquid chromatography (HPLC)</i>	Vlastita metoda <i>In-house method</i> SOP-12-053 Izdanje/Edition 02 2016-03-10
33.		Određivanje ukupne kiselosti u medu titracijom do pH 8.3 <i>Determination of free acidity by titration to pH 8.3</i>	Harmonized Methods of the International Honey Commission (2009) Metoda/Method 4
34.	Jabučni sok Apple juice	Određivanje patulina HPLC tehnikom/ <i>Determination of patuline by high performance liquid chromatography (HPLC)</i>	Vlastita metoda <i>In-house method</i> SOP-9-053 Izdanje/Edition 02 2016-02-15

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35.	Osvježavajuća bezalkoholna pića Soft drinks	Određivanje fosforne kiseline spektrofotometrijskom metodom Determination of phosphoric acid by spectrophotometric method	Vlastita metoda In-house method SOP-101-054 Izdanje/Edition 06 2014-04-09
36.	Osvježavajuća bezalkoholna pića Soft drinks	Određivanje kinina spektrofotometrijskom metodom Determination of quinine by spectrophotometric method	Vlastita metoda In-house method SOP-102-054 Izdanje/Edition 06 2018-08-25
37.	Alkoholna pića Alcoholic drinks	Određivanje sadržaja etanola plinskom kromatografijom Determination of ethanol content by gas chromatography	Vlastita metoda In-house method SOP-24-053 Izdanje/Edition 02 2018-08-30
38.	Sušeno voće i vino Dried fruit and wine	Određivanje SO ₂ u hrani HPLC tehnikom Determination of SO ₂ in food by HPLC	Vlastita metoda In-house method SOP-236-053 Izdanje/Edition 02 2016-02-15
39.	Orašasti plodovi Nuts (ground nuts and tree nuts)	Određivanje skupnih aflatoksina (B ₁ , B ₂ , G ₁ , G ₂) ELISA tehnikom Determination of total aflatoxins (B ₁ , B ₂ , G ₁ , G ₂) by ELISA	Vlastita metoda In-house method SOP-107-054 Izdanje/Edition 03 2016-03-15
40.	Riba i proizvodi od riba Fish and fish products	Određivanje histamina HPLC tehnikom Determination of histamine by HPLC technique	Vlastita metoda In-house method SOP-88-053 Izdanje/Edition 05 2016-03-10
41.	Hrana Food	Određivanje akrilamida UPLC-MS/MS tehnikom Determination of acrylamid by UPLC-MS/MS	Vlastita metoda In-house method SOP-281-053 Izdanje/Edition 04 2018-03-30



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42.	Hrana morskog i biljnog podrijetla Food of marine and plant origin	Određivanje anorganskog arsena primjenom anionskog izmjenjivača HPLC-ICP-MS Determination of inorganic arsenic by using anion exchange HPLC-ICP-MS	HRN EN 16802:2016 (EN 16802:2016)
43.		Određivanje fenbutatin-oksida i dodina metodom tekućinske kromatografije/tandemskom spektrometrijom mase (UPLC-MS/MS) Determination of fenbutatin-oxide and dodine residues in food using UPLC-MS/MS	Vlastita metoda In-house method SOP-346-053 Izdanje/Edition 02 2017-10-16
44.	Hrana Food	Određivanje ditiokarbamata izraženih kao CS ₂ u hrani plinskom kromatografijom sa spektrometrijom masa (GC-MS) Determination of dithiocarbamates expressed like CS ₂ in food by gas chromatography mass spectrometry (GC-MS)	Vlastita metoda In-house method SOP-353-053 Izdanje/Edition 02 2017-09-11
45.		Određivanje para red i sudana I-IV u hrani HPLC tehnikom Determination of para red and sudan dyes I-IV in food by HPLC	Vlastita metoda In-house method SOP-401-053 Izdanje/Edition 01 2020-01-27
46.		Određivanje antioksidansa u hrani HPLC tehnikom Determination of antioxidants in food by HPLC	Vlastita metoda In-house method SOP-379-053 Izdanje/Edition 01 2020-02-07

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47.	Hrana Food	Određivanje tropanskih alkaloida kombiniranom metodom tekućinske kromatografije – višestruke spektrometrije masa (LC-MS/MS) <i>Determination of Tropane alkaloids by liquid chromatography-tandem mass spectrometry (LC-MS/MS)</i>	Vlastita metoda <i>In-house method</i> SOP-193-053 Izdanje/Edition 02 2020-02-10
48.		Određivanje masenog udjela kanabinoida u konoplji primjenom plinske kromatografije <i>Determination of cannabinoid content in hemp by gas chromatography</i>	Vlastita metoda <i>In-house method</i> SOP-186-053 Izdanje/Edition 02 2020-01-20



Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range ili/or Granica kvantifikacije/ Quantification limit	Metoda ispitivanja Test method
II Voda / Water			
49.	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)
50.	Podzemna voda 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)
51.	Otpadna voda Waste water	Uzorkovanje Sampling	HRN ISO 5667-10:2000 (ISO 5667-10:1992) HRN EN ISO 19458:2008 (ISO 19458:2006; EN ISO 19458:2006)
52.	Bazenska voda Pool water	Uzorkovanje Sampling	HRN EN ISO 19458:2008 (ISO 19458:2006; EN ISO 19458:2006) Točka/ Item 4.4.3.
53.	Voda za ljudsku potrošnju, prirodna mineralna, prirodna izvorska, stolna voda, bazenska voda, površinska, podzemna i otpadna voda Water for human consumption, natural mineral water, natural spring water, table water, pool water, surface water, ground water and waste water	Određivanje pH vrijednosti Determination of pH 2 - 12	HRN EN ISO 10523:2012 (ISO 10523:2008; EN ISO 10523:2012)
54.		Određivanje temperature – termometrija Determination of temperature - thermometric method (1,0 – 80,0) °C	DIN 38404-4:1976

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55.	Voda za ljudsku potrošnju, prirodna mineralna, prirodna izvorska, stolna, površinska, podzemna, bazenska voda i voda za kupanje, otpadna i tehnološka voda Water for human consumption, natural mineral water, natural spring water, table water, surface water, ground water, pool water, bathing water, waste water and technological water	Određivanje ukupnog i slobodnog klora kolorimetrijska metoda s N,N-dietil-1,4-fenilendiaminom u svrhu rutinske kontrole Determination of total and free chlorine - colorimetric method using N,N-diethyl-1,4-phenylendiamine for routine control purposes Granica kvantifikacije/ Quantification limit 0,02 mg/L	HRN EN ISO 7393-2:2018 (ISO 7393-2:2017; EN ISO 7393-2:2018)



Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range ili/or Granica kvantifikacije/ Quantification limit	Metoda ispitivanja Test method
56.	Voda za ljudsku potrošnju, prirodna mineralna, prirodna izvorska i stolna voda <i>Water for human consumption, natural mineral water, natural spring water and table water</i>	Određivanje policikličkih aromatskih ugljikovodika u vodi HPLC tehnikom Granica kvantifikacije fluoranten 0,005 µg/L benzo(b)fluoranten, benzo (k) fluoranten, benzo(a)piren, benzo(g,h,i)perilen, indeno(1,2,3-c,d)piren 0,0025 µg/L Determination of polycyclic aromatic hydrocarbons by HPLC technique Quantification limit 0,005 µg/L for fluoranthene, 0,0025 µg/L for benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene benzo(g h i)perylene, indeno(1,2,3-c,d)pyrene	Vlastita metoda <i>In-house method</i> SOP-144-053 Izdanje/Edition 03 2018-08-31

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57.	Voda za ljudsku potrošnju, prirodna mineralna, prirodna izvorska, stolna voda, površinska, podzemna i otpadna voda <i>Water for human consumption, natural mineral water, natural spring water, table water, surface water, ground water and waste water</i>	Određivanje benzena i njegovih derivata (toluen, m-, o-, p-ksilen i etilbenzen) ekstrakcijom i plinskom kromatografijom <i>Determination of benzene and some derivatives (toluene, m-, o-, p-xylene and ethylbenzene) by extraction and gas chromatography</i> Granica kvantifikacije 0,50 µg/L za svaki analit iz skupine BTEX-a za vodu za ljudsku potrošnju, prirodnu mineralnu, prirodnu izvorsku, stolnu vodu, površinsku i podzemnu vodu <i>Quantification limit 0,50 µg/L for each BTEX analyte individually, for water for human consumption, natural mineral water, natural spring water, table water, surface water and ground water</i> Granica kvantifikacije 0,005 mg/L za otpadnu vodu <i>Quantification limit 0,005 mg/L for waste water</i>	HRN ISO 11423-2:2002 (ISO 11423-2:1997)



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58.	Voda za ljudsku potrošnju, prirodna mineralna, prirodna izvorska, stolna voda, površinska i podzemna voda Water for human consumption, natural mineral water, natural spring water, table water surface water and ground water	Određivanje sredstava za zaštitu bilja (atrazin, atrazin-desetil, simazin, propazin) uporabom tekućinske kromatografije visoke djelotvornosti s UV detekcijom Determination plant treatment agents (atrazine, atrazine-desethyl, simazine, propazine) by high performance liquid chromatography with UV detection Granica kvantifikacije/ Quantification limit 0,020 µg/L	HRN EN ISO 11369:2002 (ISO 11369:1997; EN ISO 11369:1997)
59.	Voda za ljudsku potrošnju, prirodna mineralna, prirodna izvorska, stolna voda, površinska voda i podzemna voda Water for human consumption, natural mineral water, natural spring water, table water, surface water and ground water	Određivanje ugljikovodika C ₁₀ – C ₄₀ u vodi primjenom plinske kromatografije i spektrometrije masa (GCMS) Determination of hydrocarbons C ₁₀ – C ₄₀ in water by gas chromatography mass spectrometry (GC-MS) Granica kvantifikacije/ Quantification limit 2,0 µg/L	Vlastita metoda In-house method SOP-17-053 Izdanje/Edition 05 2020-12-15



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60.	Voda za ljudsku potrošnju, prirodna mineralna, prirodna izvorska, stolna voda, površinska, podzemna i otpadna voda Water for human consumption, natural mineral water, natural spring water, table water, surface water, ground water and waste water	Određivanje arsena atomskom apsorpcijskom spektrometrijom (hidridna tehnika) Determination of arsenic by atomic absorption spectrometry (hydride technique) Granica kvantifikacije 0,5 µg/L za vodu za ljudsku potrošnju, prirodna mineralna, izvorska, stolna voda, površinska i podzemna voda 0,001 mg/L za otpadnu vodu Quantification limit 0,5 µg/L Water for human consumption, natural mineral water, natural spring water, table water, surface water, ground water 0,001 mg/L for waste water	ISO 17378-2:2014
61.		Određivanje koncentracije željeza atomskom apsorpcijskom spektrometrijom (plamena tehnika) Determination of iron by atomic absorption spectrometry (flame technique) Granica kvantifikacije/ Quantification limit 100 µgL⁻¹	DIN 38406 Dio/Teil 32:2000

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62.	Voda za ljudsku potrošnju, prirodna mineralna, prirodna izvorska, stolna voda, površinska, podzemna voda i otpadna voda Water for human consumption, natural mineral water, natural spring water, table water, surface water, ground water and waste water	Određivanje koncentracije mangana atomskom apsorpcijskom spektrometrijom (plamena tehnika) Determination of manganese by atomic absorption spectrometry (graphite and flame technique) Granica kvantifikacije/ Quantification limit 20 µg/L	DIN 38406 Dio/Teil 33:2000
63.	Otpadna voda Waste water	Određivanje kemijske potrošnje kisika (KPK) Determination of the Chemical Oxygen Demand (COD) (Kivetni testovi Hach Lange LCK 314 i 514/ Cuvette tests Hach Lange LCK 314 and 514) (15 – 2000) mg/L O ₂	Vlastita metoda In-house method SOP-11-051 Izdanje/Edition 02 2018-10-01
64.	Voda za ljudsku potrošnju, prirodna mineralna, prirodna izvorska, stolna voda, bazenska voda, površinska, podzemna i tehnološka voda Water for human consumption, natural mineral water, natural spring water, table water, pool water, surface water, ground water and technological water	Određivanje boje Determination of colour Granica kvantifikacije/ Quantification limit 5 mg/L Pt/Co	Standard Methods for the Examination of Water and Wastewater, 2120C 23. izdanje/23.Edition

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65.	Voda za ljudsku potrošnju, prirodna mineralna, prirodna izvorska, stolna voda, sirova voda, bazenska voda, površinska i podzemna voda Water for human consumption, natural mineral water, natural spring water, table water, raw water, pool water, surface water and ground water	Određivanje permanganatnog indeksa Determination of permanganate indeks Granica kvantifikacije/ Quantification limit 0,50 mg/L O ₂	HRN EN ISO 8467:2001 (ISO 8467:1993; EN ISO 8467:1995)
66.	Voda za ljudsku potrošnju, prirodna mineralna, prirodna izvorska, stolna voda, bazenska voda, površinska i podzemna voda	Određivanje mutnoće Determination of Turbidity Granica kvantifikacije/ Quantification limit 0,10 NTU	HRN EN ISO 7027-1:2016 (ISO 7027-1:2016; EN ISO 7027-1:2016)
67.	Water for human consumption, natural mineral water, natural spring water, table water, pool water, surface water and ground water	Određivanje sume kalcija i magnezija – volumetrijska metoda s EDTA Determination of the sum of calcium and magnesium - EDTA titrimetric method Granica kvantifikacije/ Quantification limit 50 mg/L CaCO ₃	HRN ISO 6059:1998 (ISO 6059:1984)

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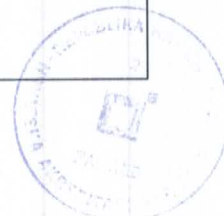
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68.	Voda za ljudsku potrošnju, prirodna mineralna, prirodna izvorska, stolna voda, bazenska voda, površinska, podzemna voda i otpadna voda Water for human consumption, natural mineral water, natural spring water, table water, pool water, surface water, ground water and waste water	Određivanje anionskih tenzida mjerenjem indeksa metilenskog modrila (MMAT) Determination of anionic surfactants by measurement of the methylene blue index (MBAS) Granica kvantifikacije/ Quantification limit 0,01 mg/L	Vlastita metoda In-house method SOP-64-051 Izdanje/Edition 08 2018-10-15 Modificirana/ Modified HRN EN 903:2002 (EN 903:1993)
69.	Voda za ljudsku potrošnju, prirodna mineralna, prirodna izvorska, stolna voda, bazenska voda, površinska i podzemna voda Water for human consumption, natural mineral water, natural spring water, table water, pool water, surface water and ground water	Određivanje električne vodljivosti Determination of electrical conductivity (1– 2000) µS/cm	HRN EN 27888:2008 (ISO 7888:1985; EN 27888:2003)
70.	Površinska, podzemna i otpadna voda Surface water, ground water and waste water	Određivanje dušika po Kjeldahlu nakon mineralizacije sa selenom Determination of nitrogen by the Kjeldahl method after mineralization with selenium Granica kvantifikacije/ Quantification limit 1,0 mg/L N	HRN EN 25663:2008 (ISO 5663:1984; EN 25663:1993)

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71.	Otpadna voda Waste water	Određivanje ukupne suspendirane tvari s membranskim filterom Determination of filterable suspended matter using a membrane filter Granica kvantifikacije/ Quantification limit 2 mg/L	DIN 38409, T2-H2-21987 Točka/Clause 5.2



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72.	Voda za ljudsku potrošnju, prirodna mineralna, prirodna izvorska, stolna voda, voda za kupanje, otpadna voda, površinska i podzemna voda <i>Water for human consumption, natural mineral water, natural spring water, table water, bathing water, waste water, surface water and ground water</i>	Određivane lakohlapljivih kloriranih ugljikovodika (tetraklorugljik, 1,2-dikloreten, 1,1,1-trikloreten, 1,1,2-trikloreten, 1,1,2,2-tetrakloreten, 1,1-dikloreten, trikloreten, tetrakloreten) i trihalometana (kloroform, bromdiklormetan, dibromklormetan, bromoform) primjenom plinske kromatografije <i>Determination of highly volatile halogenated hydrocarbons (carbon tetrachloride, 1,2-dichloroethane, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1,2,2-tetrachloroethane, 1,1-dichloroethene, trichloroethene, tetrachloroethene) and trihalomethanes (chloroform, bromodichloromethane, dibromochloromethane, bromoform) by gas chromatography</i> Granica kvantifikacije 0,5 µg/L za sve analite osim 1,2-dikloretena (1,0 µg/L) za vodu za ljudsku potrošnju, prirodnu mineralnu, prirodnu izvorsku, stolnu vodu, vodu za kupanje, površinsku i podzemnu vodu Quantification limit 0,5 µg/L for all analyte except 1,2-dichloroethane (1,0 µg/L) for water for human consumption, natural mineral water, natural spring water, table water, bathing water, surface water and ground water Granica kvantifikacije 0,00050 mg/L za sve analite osim 1,2-dikloretena (0,0010 mg/L) za otpadnu vodu Quantification limit 0,00050 mg/L for all analyte except 1,2-dichloroethane (0,0010 mg/L) for waste water	HRN EN ISO 10301:2002 (EN ISO 10301:1997)

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73.	Voda za ljudsku potrošnju, prirodna mineralna, prirodna izvorska, stolna voda, sirova i otpadna voda Water for human consumption, natural mineral water, natural spring water, table water, raw water and waste water	Određivanje nitrita - molekularna apsorpcijska metoda Determination of nitrite - Molecular absorption spectrometric method Granica kvantifikacije/ Quantification limit 0,008 mg/L N	HRN EN 26777:1998 (ISO 6777:1984; EN 26777:1993)
74.	Voda za ljudsku potrošnju, prirodna mineralna, prirodna izvorska, stolna voda, površinska i podzemna voda Water for human consumption, natural mineral water, natural spring water, table water, surface water and ground water	Određivanje silikata Determination of silicates Granica kvantifikacije/ Quantification limit 0,5 mg/L	ASTM D 859-16
75.	Otpadna voda Waste water	Određivanje volumnog udjela taložive tvari Determination of the settleable matter by volume Granica kvantifikacije/ Quantification limit 0,1 mL/L	DIN 38409, H9-2:1980



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76.	Voda za ljudsku potrošnju, površinska, podzemna voda Water for human consumption, surface water and ground water	Određivanje ukupnog dušika računski Determination of total nitrogen by calculation Granica kvantifikacije/ Quantification limit 1,0 mg/L N	Vlastita metoda In-house method SOP-230-051 Izdanje/Edition 03 2018-10-01 modificirana/ modified HRN EN 25663:2008 (ISO 5663:1984; EN 25663:1993) HRN EN ISO 10304-1:2009 (ISO 10304-1:2007, EN ISO 10304-1:2009)
77.	Voda za ljudsku potrošnju, prirodna mineralna, prirodna izvorska, stolna voda, površinska, podzemna i otpadna voda Water for human consumption, natural mineral water, natural spring water, table water, surface water, ground water and waste water	Određivanje fenolnog indeksa – spektrometrijska metoda s 4- aminoantipirinom nakon destilacije Determination of phenol index: 4-aminoantipyrine (4- aminophenazone) spectrometric method after distillation Granica kvantifikacije/ Quantification limit 0,002 mg/L	HRN ISO 6439:1998 (ISO 6439:1990)

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78.	Voda za ljudsku potrošnju, prirodna mineralna, prirodna izvorska, stolna voda, površinska, podzemna i otpadna voda <i>Water for human consumption, natural mineral water, natural spring water, table water, surface water, ground water and waste water</i>	Određivanje kroma (VI) – spektrometrijska metoda s 1,5 – difenilkarbazidom <i>Determination of chromium (VI). Spectrometric method using 1,5-diphenylcarbazide</i> Granica kvantifikacije/ <i>Quantification limit</i> 0,05 mg/L	HRN ISO 11083:1998 (ISO 11083:1994)
79.	Voda za ljudsku potrošnju, prirodna mineralna, prirodna izvorska, stolna voda, površinska, podzemna i otpadna voda <i>Water for human consumption, natural mineral water, natural spring water, table water, surface water, ground water and waste water</i>	Određivanje ortofosfata spektrometrijska metoda s amonijevim molibdatom <i>Determination of phosphorus – Ammonium molybdate spectrometric method</i> Granice kvantifikacije: <i>Limit of quantification:</i> 0,003 mg/L P	HRN EN ISO 6878:2008 (ISO 6878:2004; EN ISO 6878:2004) Točka / Clause 4.
		Određivanje ukupnog fosfora spektrometrijski <i>Determination of total phosphorus spectrometrically</i> Granice kvantifikacije: <i>Limit of quantification:</i> 0,003 mg/L P	Vlastita metoda <i>In house method</i> SOP-203-051 Izdanje/Edition 01 2020-02-17

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80.	Voda za ljudsku potrošnju, prirodna mineralna, prirodna izvorska, stolna voda, bazenska voda, površinska, podzemna i otpadna voda <i>Water for human consumption, natural mineral water, natural spring water, table water, pool water, surface water, ground water and waste water</i>	Određivanje suspendiranih tvari – Metoda filtriranjem kroz filter od staklenih vlakana <i>Determination of suspended solids – Method by filtration through glass fibre filters</i> Granice kvantifikacije: <i>Limit of quantification:</i> 2 mg/L	HRN EN 872:2008 (EN 872:2005)
81.	Voda za ljudsku potrošnju, bazenska voda, površinska voda i podzemna voda <i>Water for human consumption, pool water, surface water and ground water</i>	Određivanje redoks potencijala u vodi <i>Determination of reduction potential in water</i> ±1200 mV	Standard Methods for the Examination of Water and Wastewater, 2580B 23.izdanje/23.Edition
82.	Voda za ljudsku potrošnju, prirodne mineralne, prirodne izvorske, stolne vode i podzemna voda <i>Water for human consumption, natural mineral water, natural spring water, table water and ground water</i>	Određivanje otopljenih klorita i klorata – metoda ionske tekućinske kromatografije <i>Determination of dissolved chlorate and chlorite – Method by liquid chromatography of ions</i> Granice kvantifikacije <i>Limit of quantification:</i> Klorit 0,010 mg/L ClO_2^- Klorat 0,030 mg/L ClO_3^-	HRN EN ISO 10304-4:2001 (ISO 10304-4:1997; EN ISO 10304-4:1999)

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83.	Voda za ljudsku potrošnju, prirodne mineralne, prirodne izvorske, stolne vode, površinska voda i podzemna voda Water for human consumption, natural mineral water, natural spring water, table water, surface water and ground water	Određivanje otopljenog bromata – metoda ionske tekućinske kromatografije <i>Determination of dissolved bromate – Method by liquid chromatography of ions</i> Granice kvantifikacije <i>Limit of quantification:</i> 2,0 µg/L BrO ₃ ⁻	HRN EN ISO 15061:2001 (ISO 15061:2001; EN ISO 15061:2001)



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84.	Voda za ljudsku potrošnju, podzemna voda, površinska voda i otpadna voda Water for human consumption, ground water, surface water and waste water	Određivanje organoklorinih pesticida (alfa-HCH, HCB, lindan, beta-HCH, delta-HCH, heptaklor, aldrin, izodrin, heptaklor epoksid egzo, heptaklor epoksid endo, trans-klordan, cis-klordan, endosulfan I, endosulfan II, endosulfan sulfat, dieldrin, endrin, endrin aldehid, o,p-DDE, p,p-DDE, o,p-DDD, p,p-DDT, p,p-DDT, metoksiklor, endrin keton, vinklozolin, dikofol, kaptan) plinskom kromatografijom uz detektor zahvata elektrona (GC-ECD)/ Detremation of organochlorine pesticides (alpha-HCH, HCB, lindane, beta-HCH, delta-HCH, heptachlor, aldrin, isodrin, heptachlor epoxid exo, heptachlor epoxid endo, trans-chlordan, cis-chlordan, endosulphan I, endosulphan II, endosulphan sulphat, dieldrin, endrine, endrine aldehyde, o,p-DDE, p,p-DDE, o,p-DDD, p,p-DDT, p,p-DDT, metoxychlor, endrine keton, vinclozolin, dicofol, captan) by gas chromatography coupled with electron capture detector (GC-ECD) Granica kvantifikacije/ Quantification limit Voda za ljudsku potrošnju, podzemna voda/ Water for human consumption, ground water 0,01 µg/L Granica kvantifikacije/ Quantification limit Površinska voda/ surface water 0,00075 µg/L Osim za /except for vinklozolin, heptaklor, dikofol, kaptan/Vinclozolin, heptachlor, dicofol, captan 0,0015 µg/L Granica kvantifikacije/ Quantification limit Otpadna voda/waste water 0,0001 mg/L	Vlastita metoda In house method SOP-179-053 Izdanje/Edition 05 2018-07-30

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range ili/or Granica kvantifikacije/ Quantification limit	Metoda ispitivanja Test method
85.	Voda za ljudsku potrošnju, površinska i podzemna voda Water for human consumption, surface and ground water	Određivanje pesticida u vodi UPLC-MS/MS tehnikom Granica kvantifikacije 0,025 µg/L Acetamidrid, Aldikarb-sulfon, Ametrin, Aminokarb, Azinfos metil, Azoksistrobin, Benalaksil, Bendiokarb, Benzoksimat, Boskalid, Bromukonazol, Bupirimat, Buprofezin, Butafenacil, Butoksikarboksim, Cianazin, Ciazofamid, Cikluron, Cimoksamil, Ciprodinil, Ciprokonazol, Ciromazin, Demeton-S-metil-sulfon, Dietofenkarb, Diflubenzuron, Diklobutazol, Dikrotofos, Dimetoat, Dimetomorf, Dimoksistrobin, Dinikonazol, Dioksakarb, Disulfoton-sulfon, Diuron, Emeaktin (benzoat), Epoksikonazol, Etakonazol, Etioprol, Etririmol, Etofumezat, Etoksazol, Fenamidon, Fenazakvin, Fenbukonazol, Fenobukarb, Fenoksikarb, Fenpiroksimat, Fenuron, Fipronil, Flonikamid, Florklorfenuron, Fluazifop-butil, Fluazinam, Flufenacet, Flufenoksuron, Flukvinkonazol, Fluoksastrobilin, Fluometuron, Flusilazol, Flutolanil, Flutriafol, Formetanat, Fostiazat, Furalaksil, Haloksifop-metil, Heksafumuron, Heksakonazol, Heksazinon, Heksitiazoks, Imidaklopid, Indoksakarb, Ioksinil, Ipkonazol, Iprovalikarb, Izoproturon, Karbaril, Karbendazim, Karbetamid, Karbofuran, Karbofuran-3-hidroksi, Karfentrazon-etil, Klorantraniliprol, Klorfluazuron, Kloridazon, Kloroksuron, Klorotoluron, Klotianidin, Kvinoksifen, Linuron, Lufenuron, Malaokson, Mandipropamid, Mefenacet, Mekarbam, Meksakarb, Mepanipirim, Mepronil, Metabenzthiazuron, Metalaksil i Metalaksil M, Metamitron, Metazaklor, Metiokarb, Metkonazol, Metobromuron, Metoksifenozyd, Metomil, Metoprotin, Metribuzin, Mevinfos, Miklobutanil, Monokrotofos, Monolinuron, Neburon, Novaluron, Nuarmol, Oksadiksil, Oksamil, Ometoat, Paklobutrazol, Pencicuron, Penkonazol, Pikoksistrobin, Piperonil butoksid, Pirakarbolid, Piraklostrobilin, Piridaben, Piridat, Pirimethanil, Pirimikarb, Piriproksifen, Profam, Prokloraz, Promekarb, Prometon, Prometrin, Propakvizafop, Propargit, Propikonazol, Propoksir, Rotenon, Sekbumeton, Siduron, Simetrin, Spirodiklofen, Spiroteramat, Tebuconazol, Tebufenozid, Tebufenpirad, Tebutiuron, Temefos, Terbumeton, Terbutilazin, Terbutrin, Tetrakonazol, Tiaklopid, Tiametoksam, Tiazuron, Tiobenkarb, Topramezon, Triadimefon, Triciclazol, Trifloksistrobin, Triflumizol, Triflumuron, Tritikonazol, Zoksamid. Determination of pesticides in water by UPLC-MS/MS technique Quantification limit 0,025 µg/L Acetamidrid, Aldikarb sulfone, Ametryn, Aminocarb, Azinphos-methyl, Azoxystrobin, Benalaxyl, Bendiocarb, Benzoximate, Boscalid, Bromuconazole, Bupirimate, Buprofezin, Butafenacil, Butoxycarboxim, Carbaryl, Carbendazim, Carbetamide, Carbofuran, Carbofuran-3-hydroxy, Carfentrazon-ethyl, Chlorantraniliprole, Chlorfluazuron, Chloridazon, Chlorotoluron, Chloroxuron, Clothianidin, Cyanazine, Cyazofamid, Cycluron, Cymoxanil, Cyproconazole, Cyprodinil, Cyromazine, Demeton-S-methyl-sulfon, Diclobutrazol, Dicrotophos, Diethofencarb, Diflubenzuron, Dimethoate, Dimethomorph, Dimoxystrobin, Diniconazole, Dioxacarb, Disulfoton-sulfone, Diuron, Emeactin benzoate, Epoxiconazole, Etakonazole, Ethiprole, Etririmol, Etofumescat, Etoxacarbo, Fenamidone, Fenazaquin, Fenbuconazole, Fenobucarb, Fenoxycarb, Fenpyroximate, Fenuron, Fipronil, Flonicamid, Fluazifop-butyl, Fluazinam, Flufenacet, Flufenoxuron, Fluomethuron, Fluoxastrobilin, Fluquinconazole, Flusilazole, Flutolanil, Flutriafol, Forchlorfenuron, Formetanate, Fosthiazate, Furalaxyl, Haloxyfop-P methyl, Hexaconazole, Hexaflumuron, Hexazinone, Hexythiazox, Imidaklopid, Indoxacarb, Ioxynil, Ipconazole, Iprovalicarb, Isoproturon, Linuron, Lufenuron, Malaokson, Mandipropamid, Mekarbam, Mefenacet, Mepanipirim, Mepronil, Metalaxyl i Metalaxyl M, Metamitron, Metazachlor, Metconazole, Methabenzthiazuron, Methiocarb, Methomyl, Methoprotin, Methoxyfenozide, Metobromuron, Metribuzin, Mevinphos, Mexacarbate, Monocrotophos, Monolinuron, Myclobutanil, Neburon, Novaluron, Nuarmol, Omethoate, Oxadixyl, Oxamyl, Paclobutrazol, Penconazole, Pencycuron, Picoxystrobin, Piperonyl butoxide, Pirimicarb, Prochloraz, Promekarb, Prometon, Prometrin, Propaquizafop, Propargite, Protham, Propiconazole, Propoxur, Pyracarbolid, Pyraclostrobin, Pyridaben, Pyridat, Pyrimethanil, Pyriproksifen, Quinoxifen, Rotenone, Secbumeton, Siduron, Simetryn, Spirodiclofen, Spirotetramat, Tebuconazole, Tebufenozide, Tebufenpyrad, Tebutiuron, Temephos, Terbumeton, Terbutylazine, Terbutrin, Tetraconazole, Thiaclopid, Thiamethoxam, Thidiazuron, Thiobencarb,	Vlastita metoda In-house method SOP-300-053 Izdanje/Edition 02 2018-08-29

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range ili/or Granica kvantifikacije/ Quantification limit	Metoda ispitivanja Test method
		Topramezone, Triadimefon, Tricyclazole, Trifloxystrobin, Triflumizole, Triflumuron, Triticonazole, Zoxamide.	
86.	Voda za ljudsku potrošnju, podzemna voda, površinska voda i otpadna voda Water for human consumption, ground water, surface water and waste water	Razdvajanje i određivanje kongenera PCB-a (PCB18, PCB28, PCB52 PCB101, PCB118, PCB153, PCB138, PCB180, PCB194) plinskom kromatografijom uz detektor zahvata elektrona (GC-ECD)/ Separation and determination of PCB congeners (PCB18, PCB28, PCB52 PCB101, PCB118, PCB153, PCB138, PCB180, PCB194) by gas chromatography coupled with electron capture detector (GC-ECD) Voda za ljudsku potrošnju, podzemna voda, površinska voda/ Water for human consumption ground water surface water Granica kvantifikacije/ Quantification limit 0,005 µg/L za svaki kongener /for each congener Otpadna voda/waste water Granica kvantifikacije/ Quantification limit 0,0001 mg /L za svaki kongener /for each congener	Vlastita metoda In house method SOP-178-053 Izdanje/Edition 04 2017-08-31

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range ili/or Granica kvantifikacije/ Quantification limit	Metoda ispitivanja Test method
87.	Voda za ljudsku potrošnju, prirodna mineralna, prirodna izvorska, stolna voda, voda za kupanje, otpadna voda, površinska, podzemna, tehnološka voda, morska voda i led <i>Water for human consumption, natural mineral water, natural spring water, table water bathing water, waste water, surface water, ground water, technological water, sea water and ice</i>	Detekcija i brojenje crijevnih enterokoka - 2.dio: Metoda membranske filtracije <i>Detection and enumeration of intestinal enterococci - Part 2: Membrane filtration</i>	HRN EN ISO 7899-2:2000 <i>(ISO 7899-2:2000; EN ISO 7899-2:2000)</i>
88.	Površinska i otpadna voda <i>Surface water and waste water</i>	Detekcija i brojenje crijevnih enterokoka metodom najvjerojatnijeg broja mikrotitrskim pločama <i>The most probable number method for detection and enumeration of intestinal enterococci by microtitre plates</i>	HRN EN ISO 7899-1:2000 <i>(ISO 7899-1:1998, EN ISO 7899-1:1998)</i> HRN EN ISO 7899-1/Ispr.1:2000 <i>(ISO 7899-1:1998/Cor 1:2000, EN ISO 7899-1:1998/AC:2000)</i>

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89.	Voda za ljudsku potrošnju, prirodna mineralna, prirodna izvorska, stolna voda, voda za kupanje, bazenska voda, površinska, podzemna, tehnološka voda i led <i>Water for human consumption, natural mineral water, natural spring water, table water, bathing water, pool water, surface water, ground water, technological water and ice</i>	Brojenje kolonija mikroorganizama sposobnih za stvaranje kolonija naciepljivanjem na hranjivi agar <i>Enumeration of culturable micro-organisms by inoculation in a nutrient agar culture medium</i>	HRN EN ISO 6222:2000 (ISO 6222:1999; EN ISO 6222:1999)
90.	Voda za ljudsku potrošnju, prirodna mineralna, prirodna izvorska, stolna voda i bazenska voda <i>Water for human consumption, natural mineral water, natural spring water, table water and pool water</i>	Brojenje <i>Escherichia coli</i> i koliformnih bakterija metodom membranske filtracije za vode s niskom pozadinom bakterijske flore <i>Membrane filtration method for enumeration of Escherichia coli and coliform bacteria for waters with low bacterial background flora</i>	HRN EN ISO 9308-1:2014/ A1:2017 (ISO 9308-1:2014/ Amd 1:2016; EN ISO 9308-1:2014/Amd 1:2017)
91.	Voda za kupanje, površinska, podzemna, tehnološka, morska voda i led <i>Bathing water, surface water, ground water, technological water, sea water and ice</i>	Brojenje <i>Escherichia coli</i> i koliformnih bakterija u vodi metodom membranske filtracije <i>Membrane filtration method for enumeration of Escherichia coli and coliform bacteria for waters</i>	SOP-211-051 Izdanje/Edition 01 2015-05-08 modificirana/ modified HRN EN ISO 9308-1:2014 (ISO 9308-1:2014; EN ISO 9308-1:2014)

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92.	Voda za ljudsku potrošnju, prirodna mineralna, prirodna izvorska, stolna voda, površinska, podzemna, tehnološka voda i otpadna voda <i>Water for human consumption, natural mineral water, natural spring water, table water ground water, technological water and waste water</i>	Detekcija i brojenje <i>Clostridium perfringens</i> (uključujući spore) metodom membranske filtracije <i>Detection and enumeration of Clostridium perfringens (including spores)- method by membrane filtration</i>	Vlastita metoda <i>In-house method</i> SOP-6-051 Izdanje/Edition 02 2016-06-17
93.	Voda za ljudsku potrošnju, prirodna mineralna, prirodna izvorska, stolna, voda za kupanje, otpadna voda, površinska, podzemna voda, tehnološka voda i led <i>Water for human consumption, natural mineral water, natural spring water, table water, bathing water, waste water, surface water, ground water, technological water and ice</i>	Brojenje <i>Clostridium perfringens</i> u vodi metodom membranske filtracije <i>Membrane filtration method for enumeration of Clostridium perfringens in water</i>	HRN EN ISO 14189:2016 (ISO 14189:2013; EN ISO 14189:2016)
94.		Detekcija <i>Salmonella</i> <i>Detection of Salmonella</i>	HRN EN ISO 19250:2013 (ISO 19250:2010, EN ISO 19250:2013)



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95.	Voda za ljudsku potrošnju, prirodna mineralna, prirodna izvorska, stolna voda, voda za kupanje, otpadna voda, površinska, podzemna voda, tehnološka voda, morska voda i led <i>Water for human consumption, natural mineral water, natural spring water, table water, bathing water, waste water, surface water, ground water, technological water, sea water and ice</i>	Detekcija i brojenje spora sulfito-reducirajućih klostridija <i>Detection and enumeration of the spores of sulfite-reducing clostridia</i>	HRN EN 26461-2:2008 (ISO 6461-2:1986, EN 26461-2:1993)
96.	Voda za ljudsku potrošnju, prirodna mineralna, prirodna izvorska, stolna voda, podzemna, tehnološka voda, površinska, bazenska voda i led <i>Water for human consumption, natural mineral water, natural spring water, table water, ground water, technological water, surface water, pool water and ice</i>	Detekcija i brojenje <i>Pseudomonas aeruginosa</i> - metoda membranske filtracije <i>Detection and enumeration of Pseudomonas aeruginosa - Membrane filtration method</i>	HRN EN ISO 16266:2008 (ISO 16266:2006; EN ISO 16266:2008)



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97.	Voda za ljudsku potrošnju, prirodna mineralna, prirodna izvorska, stolna, tehnološka, površinska, podzemna, bazenska i otpadna voda <i>Water for human consumption, natural mineral water, natural spring water, table water, technological water, surface water, pool and waste water</i>	Brojenje <i>Legionella</i> <i>Enumeration of Legionella</i>	HRN EN ISO 11731:2017 (ISO 11731:2017; EN ISO 11731:2017)
98.	Voda za ljudsku potrošnju, prirodna mineralna, prirodna izvorska, stolna, površinska, podzemna, tehnološka, otpadna, bazenska voda, voda za kupanje, morska voda i led <i>Water for human consumption, natural mineral water, natural spring water, table water, surface water, ground water, technological water, waste water, pool water, bathing water, sea water and ice</i>	Brojenje <i>Escherichia coli</i> i koliformnih bakterija metodom najvjerojatnijeg broja <i>The most probable number method for enumeration of Escherichia coli and coliform bacteria</i>	HRN EN ISO 9308-2:2014 (ISO 9308-2:2012; EN ISO 9308-2:2014)
99.	Površinska i otpadna voda <i>Surface water and waste water</i>	Detekcija i brojenje <i>Escherichia coli</i> metodom najvjerojatnijeg broja mikrotitarskim pločama <i>The most probable number method for detection and numeration of Escherichia coli by microtitre plates</i>	HRN EN ISO 9308-3:2000 (ISO 9308-3:1998; EN ISO 9308-3:1998) HRN EN ISO 9308-3/Ispr.1:2000 (ISO 9308-3:1998/Cor1:2000; EN ISO 9308-3:1998/AC:2000)

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100.	Voda za ljudsku potrošnju, voda za kupanje, otpadna voda, površinska voda, podzemna voda, tehnološka voda i led Water for human consumption, bathing water, waste water, surface water, ground water, technological water and ice	Brojenje fekalnih koliforma Enumeration of fecal coliforms	Vlastita metoda In-house method SOP-208-051 Izdanje/Edition 01 2015-01-12 modificirana/modified HRN EN ISO 9308-1:2014 (ISO 9308-1:2014, EN ISO 9308-1:2014) modificirana/modified HRN EN ISO 9308-2:2014 (ISO 9308-2:2012, EN ISO 9308-2:2014)

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range ili/or Granica kvantifikacije/ Quantification limit	Metoda ispitivanja Test method
III - Predmeti opće uporabe (POU) / Objects of common use			
101.	Materijali i predmeti koji dolaze u kontakt s hranom - Plastika <i>Materials and articles in contact with foodstuffs – Plastics</i>	Metode ispitivanja globalne migracije <i>Test methods for overall migration</i>	Vlastita metoda <i>In-house method</i> SOP-82-054 Izdanje/Edition 03 2020-01-31 Modificirana/ <i>Modified</i> HRN EN 1186-9:2004 (EN 1186-9:2002)
102.		Metode ispitivanje globalne migracije nakon potpunog uranjanja u vodeni model otopine namirnica <i>Test methods for overall migration into aqueous food simulants by total immersion</i>	Vlastita metoda <i>In-house method</i> SOP-312-054 Izdanje/Edition 01 2015-03-10 Modificirana/ <i>Modified</i> HRN EN 1186-3:2004 (EN 1186-3:2002)
103.	Pulpa, papir i karton <i>Pulp, paper and board</i>	Određivanje sedam specifičnih polikloriranih bifenila (PKB : PCB-18, PCB-28, PCB-52, PCB-101, PCB-138, PCB-153, PCB-180) <i>Determination of seven specific polychlorinated biphenyls (PCB: PCB-18, PCB-28, PCB-52, PCB-101, PCB-138, PCB-153, PCB-180)</i>	HRN EN ISO 15318:2001 (ISO 15318:1999; EN ISO 15318:1999)
104.	Materijali i proizvodi u kontaktu s namirnicama-sastojci plastike podvrgnuti ograničenjima <i>Materials and articles in contact with foodstuffs-Plastics substances subject to limitations</i>	Određivanje formaldehida u model otopini hrane <i>Determination of formaldehyde in food simulans</i>	HRN CEN/TS 13130-23:2005 (CEN/TS 13130-23:2005)

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105.	Tekstil Textiles	Određivanje formaldehida: slobodni i hidrolizirani formaldehid (ekstrakcija vodom) Determination of formaldehyde: Free and hydrolised formaldehyde (water extraction method)	HRN EN ISO 14184-1:2011 (ISO 14184-1:2011; EN ISO 14184-1:2011)
106.	Predmeti opće uporabe Kemijski pripravci Otpadna voda, podzemna i površinska voda Common use objects Chemical compounds Waste water, ground and surface water	Određivanje inhibicije pokretljivosti <i>Daphnia magna</i> Straus(Cladocera, Crustacea)- Test akutne toksičnosti Determination of the inhibition of the mobility of <i>Daphnia</i> <i>magna Straus</i> (Cladocera, Crustacea)- Acute toxicity test	HRN EN ISO 6341:2013 (ISO 6341:2012; EN ISO 6341:2012)
107.	Predmeti opće uporabe Kemijski pripravci Otpadna voda, Common use objects Chemical compounds Waste water, ground and surface water	Ispitivanje inhibicije rasta slatkovodnih algi s jednostaničnim zelenim algama Fresh-water algal growth inhibition test with unicellular green algae	HRN EN ISO 8692:2012 (ISO 8692:2012; EN ISO 8692:2012)
108.	Predmeti opće uporabe Kemijski pripravci Common use objects Chemical compounds	Procjena potpune aerobne biološke razgradnje organskih tvari u vodi – Metoda određivanja nastalog ugljikova dioksida Evaluation of ultimate aerobic biodegradability of organic compounds in aqueous medium – Carbon dioxide evolution test	HRN EN ISO 9439:2000 (ISO 9439:1999; EN ISO 9439:2000)

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109.	Predmeti opće uporabe Kemijski pripravci Common use objects Chemical compounds	Procjena potpune aerobne biološke razgradnje organskih tvari u vodi – Metoda određivanja biokemijske potrošnje kisika (test u zatvorenim bocama) Evaluation in an aqueous medium of the „ultimate“ aerobic biodegradability of organic compounds – Method by analysis of biochemical oxygen demand (closed bottle test)	HRN EN ISO 10707:2000 (ISO 10707:1994; EN ISO 10707:1997)
110.	Predmeti opće uporabe Object of common use	Određivanje 5-kloro-2- metilizotiazol-3(2h)- ona i 2- metilizotiazol- 3(2h)-ona u kozmetičkim proizvodima HPLC tehnikom Determination of Methylchloroisothiazolinone and Methylisothiazolinone in cosmetic products by HPLC	Vlastita metoda In-house method SOP-223-053 Izdanje/Edition 01 2017-06-12
111.		Određivanje pH-vrijednosti Determination of the pH-value	Vlastita metoda In-house method SOP-261-054 Izdanje/Edition 01 2015-03-10
112.	Kozmetički proizvodi Cosmetics	Određivanje sadržaja vode u kozmetičkim proizvodima sa povećanim sadržajem vode (više od 60%) Determination of water content in cosmetic products with increased water content (more than 60%)	Vlastita metoda In-house method SOP-394-054 Izdanje/Edition 01 2020-03-02



Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range ili/or Granica kvantifikacije/ Quantification limit	Metoda ispitivanja Test method
113.	Kozmetički proizvodi Cosmetics	Određivanje konzervansa (Benzojeva kis., Sorbinska kis., 2-Fenoksietanol, Metilparaben, Etil-paraben, Propilparaben i Butilparaben) HPLC tehnikom <i>Determination of preservatives (Benzoic acid, Sorbic acid, 2- Phenoxyethanol, Methylparaben, Ethylparaben, Propylparaben and Butylparaben) by HPLC</i>	Vlastita metoda <i>In-house method</i> SOP-273-053 Izdanja/Edition 02 2016-02-10
114.		Određivanje broja aerobnih mezofilnih bakterija <i>Enumeration of aerobic mesophilic bacteria</i>	HRN EN ISO 21149:2017 <i>(ISO 21149:2017; EN ISO 21149:2017)</i>
115.		Određivanje broja kvasaca i plijesni <i>Enumeration of yeast and mold</i>	HRN EN ISO 16212:2017 <i>(ISO 16212:2017; EN ISO 16212:2017)</i>
116.		Dokazivanje bakterije <i>Escherichia coli</i> <i>Detection of Escherichia coli</i>	HRN EN ISO 21150:2016 <i>(ISO 21150:2015; EN ISO 21150:2015)</i>
117.		Dokazivanje bakterije <i>Pseudomonas aeruginosa</i> <i>Detection of Pseudomonas aeruginosa</i>	HRN EN ISO 22717:2016 <i>(ISO 22717:2015; EN ISO 22717:2015)</i>
118.		Dokazivanje bakterije <i>Staphylococcus aureus</i> <i>Detection of Staphylococcus aureus</i>	HRN EN ISO 22718:2016 <i>(ISO 22718:2015; EN ISO 22718:2015)</i>
119.		Dokazivanje kvasca <i>Candida albicans</i> <i>Detection of Candida albicans</i>	HRN EN ISO 18416:2016 <i>(ISO 18416:2015; EN ISO 18416:2015)</i>

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IV – Otpad, voda, tlo, muljevi i eluati / Waste, water, soil, sludges and eluate			
120.	Tlo Soil	Uzorkovanje Sampling	HRN ISO 18400-102:2017 (ISO 18400-102:2017)
121.	Mulj Sludge	Uzorkovanje Sampling	HRN EN ISO 5667-13:2011 (ISO 5667-13:2011; EN ISO 5667-13:2011)
122.	Otpad Waste	Uzorkovanje Sampling	HRI CEN/TR 15310- (2-5):2008 (CEN/TR 15310- (2-5):2006)
123.	Kruta oporabljena goriva SRF Solid recovered fuels	Uzorkovanje Sampling	HRN EN 15542:2011 (EN 15442:2011)
124.	Eluat otpada Waste eluate	Određivanje ukupno otopljenih krutina (TDS) u vodi i eluatima Determination of total dissolved solids (TDS) in water and eluates Granica kvantifikacija/ Quantification limit 200 mg/L	HRN EN 15216:2008 (EN 15216:2007)
125.		Određivanje pH vrijednosti u vodi i eluatima tla i otpada Determination of pH in water and waste and soil eluates 2-12	HRN EN ISO 10523:2012 (ISO 10523:2008; EN ISO 10523:2012)
126.	Tlo, mulj Soil, sludge	Određivanje pH vrijednosti Determination of pH 2-12	HRN ISO 10390:2005 (ISO 10390:2005) HRN EN 15933:2013 (EN 15933:2012)

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127.	Eluat otpada i tla Waste and soil eluate	Određivanje električne vodljivosti Determination of electrical conductivity $\geq 28 \mu\text{S/cm}$	HRN EN 27888:2008 (ISO 7888:1985; EN 27888:1993)
128.	Kruta oporabljena goriva SRF Solid recovered fuels	Određivanje sadržaja vlage Determination of the moisture content	HRN EN 15414-3:2011 (EN 15414-3:2011)
129.	Kruta oporabljena goriva SRF Solid recovered fuels	Određivanje sadržaja pepela Determination of the ash content	HRN EN 15403:2011 (EN 15403:2011)
130.	Kruta oporabljena goriva SRF Solid recovered fuels	Određivanje sadržaja biomase Determination of the biomass content	HRN EN 15440:2011 (HRN 15440:2011)

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131.	Voda za ljudsku potrošnju, prirodna mineralna, prirodna izvorska, stolna, sirova, površinska, podzemna, tehnološka i otpadna voda, i eluat otpada <i>Water for human consumption, natural mineral water, natural spring water, table water, raw water, surface water, ground water, technological water and waste water and waste eluate</i>	Određivanje koncentracije žive atomskom apsorpcijskom spektrometrijom (hidridna tehnika) <i>Determination of mercury by atomic absorption spectrometry (hydride technique)</i> Granica kvantifikacije 0,1 µg/L za vodu za ljudsku potrošnju, prirodnu mineralnu, prirodnu izvorsku, stolna, sirova, površinska, podzemna i tehnološku Granica kvantifikacije za otpanu vodu i eluate 0,0001 mg/L <i>Quantification limit 0,1 µg/L for water for human consumption, natural mineral water, natural spring water, table water, surface water, ground water</i> <i>Quantification limit 0,0001 mg/L for waste water</i>	Vlastita metoda <i>In house method</i> SOP-22-053 Izdanje/Edition 05 2018-08-29 modificirana <i>modified</i> HRN EN ISO 12846:2012 (ISO 12846:2012; EN ISO 12846:2012)
132.	Voda za ljudsku potrošnju, prirodna mineralna, prirodna izvorska, stolna, sirova, površinska, podzemna, tehnološka i otpadna voda, i eluat otpada <i>Water for human consumption, natural mineral water, natural spring water, table water, raw water, surface water, ground water, technological water and waste water and waste eluate</i>	Određivanje ukupnog organskog ugljika (UOU) i otopljenog organskog ugljika (OOU) <i>Determination of total organic carbon (TOC) and dissolved organic carbon (DOC)</i> Granica kvantifikacija/ <i>Quantification limit</i> 0,5 mg/L	HRN EN 1484:2002 (EN 1484:1997)



Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range ili/or Granica kvantifikacije/ Quantification limit	Metoda ispitivanja Test method
133.	Voda za ljudsku potrošnju, prirodna mineralna, prirodna izvorska, stolna, sirova, površinska, podzemna, tehnološka i otpadna voda, eluat otpada i tla Water for human consumption, natural mineral water, natural spring water, table water, raw water, surface water, ground water, technological water and waste water, waste and soil eluate	Određivanje adsorbibilnih organski vezanih halogena (AOX) Determination of adsorbable organically bound halogens (AOX) Granica kvantifikacija/ Quantification limit 0,02 mg/L	HRN EN ISO 9562:2008 (ISO 9562:2004; EN 9562:2004)
134.	Voda za ljudsku potrošnju, prirodna mineralna, prirodna izvorska, stolna, sirova, površinska, podzemna, tehnološka i otpadna voda, eluat otpada i tla Water for human consumption, natural mineral water, natural spring water, table water, raw water, surface water, ground water, technological water and waste water, waste and soil eluate	Određivanje sadržaja mineralnih ulja fluorescentnom spektrometrijom Determination of mineral oil content by fluorescence spectrometry Granica kvantifikacija/ Quantification limit 10 µg/L 0,2 mg/L (otpadna voda, eluati otpada i tla)	SOP-60-058 Izdanje/Edition 02 2016-10-19 modificirana modified ASTM D 4763-06, 2020
135.	Otpadna voda i eluat otpada Waste water and waste eluate	Određivanje fluorida elektrokemijskom metodom Determination of fluoride by electrochemical probe method Granica kvantifikacija/ Quantification limit 0,2 mg/L	HRN ISO 10359-1:1998 (ISO 10359-1:1992)
136.	Otpadna ulja, otpad, mulj i kruta oporabljena goriva Waste oil, waste, sludge, solid recovered fuels	Određivanje ogrjevnice (toplinske) vrijednosti kalorimetrijskom metodom Determination of net calorific value by calorimetric method	ISO 1928:2020; HRN EN 15170:2010; (EN 15170:2010) HRN EN 15400:2011; (EN 15400:2011); HRS CEN/TS 16023:2014 (CEN/TS 16023:2013)

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137.	Tlo, mulj i otpad Soil, sludge and waste	Određivanje policikličkih aromatskih ugljikovodika (acenaften, fluoren, fenantren, antracen, fluoranten, piren, benzo(a)antracen, krizen, benzo(b)fluoranten, benzo(k)fluoranten, benzo(a)piren, benzo(g,h,i)perilen, dibenz(a,h)antracen, indeno(1,2,3-cd)piren) <i>Determination of polycyclic aromatic hydrocarbons (acenaphthene, fluorene, phenanthrene, anthracene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo (a)pyrene, benzo(g,h,i)perylene, dibenz(a,h)anthracene, indeno (1,2,3 - cd)pyrene)</i> Granica kvantifikacije/ Quantification limit 0,01 mg/kg	Vlastita metoda In-house method SOP-145-053 Izdanje/Edition 01 2016-05-06

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range ili/or Granica kvantifikacije/ Quantification limit	Metoda ispitivanja Test method
138.	Tlo Soil	Određivanje BTEX-a (benzen, toluen, etilbenzen, m-,p-,o-ksilen) i mineralnih ulja u tlu plinskom kromatografijom i spektrometrijom masa <i>Determination of BTEX (benzene, toluene, ethylbenzene, m-,p-,o-xylene) and mineral oils in soil by gas chromatography and mass spectrometry</i> Granica kvantifikacije 1,0 mg/kg za svaki analit iz skupine BTEX-a pojedinačno i 200 mg/kg za mineralna ulja Quantification limit 1,0 mg/kg <i>for each BTEX analyte individually and</i> 200 mg/kg <i>for mineral oil</i>	Vlastita metoda <i>In-house method</i> SOP-231-053 Izdanje/Edition 01 2016-05-09
139.	Tlo, mulj, kruti i tekući otpad <i>Soil, sludge, solid and liquid waste</i>	Određivanje suhog ostatka, gubitka žarenjem, pepela i sadržaja vode na osnovi mase – Gravimetrijska metoda <i>Determination of dry matter, loss on ignition, ash and water content on a mass basis – Gravimetric method</i>	HRN EN 15934:2013 <i>(EN 15934:2012)</i> HRN ISO 11465:2004 <i>(ISO 11465:1993 + Cor. 1:1994)</i> HRN EN 15169:2008 <i>(EN 15169:2007)</i> HRN EN ISO 6245:2003 <i>(ISO 6245:2001; EN ISO 6245:2002)</i>
140.	Otpad, mulj, tlo i sediment <i>Waste, sludge, soil and sediment</i>	Određivanje ukupnog organskog ugljika (UOU) <i>Determination of total organic carbon (TOC)</i>	HRN EN 15936:2013 <i>(EN 15936:2012)</i> Metoda / method B

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141.	Muljevi, otpad, tlo i sediment <i>Sludge, waste, soil and sediment</i>	Određivanje dušika po Kjeldahlu <i>Determination of Kjeldahl nitrogen</i>	HRN EN 16169:2013 (EN 16169:2012)
142.	Rabljena ulja <i>Used oils</i>	Razdvajanje i određivanje kongenera PCB-a (PCB-28, PCB-52, PCB-101, PCB-138, PCB-153, PCB-180) plinskom kromatografijom uz detektor zahvata elektrona <i>Separation and determination of PCB congeners (PCB-28, PCB-52, PCB-101, PCB-138, PCB-153, PCB-180) by gas chromatography with electron capture detector</i> Granica kvantifikacija/Limit of quantification 0,1 mg/kg za svaki pojedini kongener/for each congener 1 mg/kg za ukupne PCB-e/total PCB content	HRN EN 12766-1:2002 (EN 12766-1:2000) HRN EN 12766-2:2002 (EN 12766-2:2001)
143.	Tlo, mulj, otpad/ <i>Soil, sludge, waste</i>	Određivanje i prebrojavanje <i>E. coli</i> u muljevima tlima i biološkom otpadu metodom najvjerojatnijeg broja mikrotitarskim pločama <i>The most probable number method for detection and enumeration of Escherichia coli in sludges, soils and biowastes by microtiter plates</i>	HRI CEN/TR 15214-2:2008 (CEN/TR 15214-2:2006)
144.	Tlo, mulj, otpad/ <i>Soil, sludge, waste</i>	Određivanje <i>Salmonella</i> u mulju, tlu i biološkom otpadu <i>Detection of Salmonella in soil, sludge and biowastes</i>	HRI CEN/TR 15215-3:2008 (CEN/TR 15215-3:2006)

Uz pripremu analitičkog uzorka eluata otpada prema HRN EN 12457-4:2005 (EN 12457-4:2002)/ With preparation of waste eluates for analysis according to HRN EN 12457-4:2005 (EN 12457-4:2002)

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V – Zrak / Air			
145.	Vanjski zrak Ambient air	Aerobiološka volumetrijska metoda za određivanje kvalitativnog i kvantitativnog sadržaja peluda <i>Aerobiological volumetric method for the determination of qualitative and quantitative content of pollen</i>	Vlastita metoda <i>In-house method</i> SOP-48-058 Izdanje/Edition 03 2015-05-25
146.		Standardna metoda za mjerenje koncentracije ugljikova monoksida nedisperzivnom infracrvenom spektroskopijom <i>Standard method for the measurement of the concentration of carbon monoxide by non-dispersive infrared spectroscopy</i>	HRN EN 14626:2012 (EN 14626:2012)
147.		Standardna metoda za mjerenje koncentracije dušikova dioksida i dušikova monoksida u zraku kemiluminiscencijom <i>Standard method for the measurement of the concentration of nitrogen dioxide and nitrogen monoxide by chemiluminescence</i>	HRN EN 14211:2012 (EN 14211:2012)
148.		Standardna metoda za mjerenje koncentracija sumporova dioksida u zraku ultraljubičastom fluorescencijom <i>Standard method for the measurement of the concentration of sulphur dioxide by ultraviolet fluorescence</i>	HRN EN 14212:2012 (EN 14212:2012) HRN EN 14212:2012/Ispr.1:2014 (EN 14212:2012/AC:2014)

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range ili/or Granica kvantifikacije/ Quantification limit	Metoda ispitivanja Test method
149.	Vanjski zrak Ambient air	Standardna metoda za mjerenje koncentracije ozona ultraljubičastom fotometrijom <i>Standard method for the measurement of the concentration of ozone by ultraviolet photometry</i>	HRN EN 14625:2012 (EN 14625:2012)
150.		Određivanje ukupne taložne tvari (UTT) u zraku prema Bergerhoff metodi <i>Determination of total deposited matter (TDM) in the air according to Bergerhoff method</i>	VDI 4320-2:2012, 2. dio/ part 2
151.		Određivanje količine arsena, kadmija, olova, nikla u ukupnoj taložnoj tvari zraka primjenom induktivno spregnute plazme sa spektrometrijom masa <i>Determination of arsenic, cadmium, lead, nickel in the total deposition of air by inductively coupled plasma with mass spectrometry</i> Granica kvantifikacije/ <i>Quantification limit</i> As 0,2 µgm ⁻² /d Cd 0,1 µgm ⁻² /d Pb 1 µgm ⁻² /d Ni 2 µgm ⁻² /d	HRN EN 15841:2010 (EN 15841:2009)

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range ili/or Granica kvantifikacije/ Quantification limit	Metoda ispitivanja Test method
152.	Vanjski zrak Ambient air	Određivanje talija u ukupnoj taložnoj tvari zraka primjenom induktivno spregnute plazme sa spektrometrijom masa Determination of thallium in total deposition of air by inductively coupled plasma with mass spectrometry Granica kvantifikacije/ Quantification limit 0,8 µgm⁻²/d	Vlastita metoda In-house method SOP-350-053 Izdanje/Edition 02 2020-12-01
153.	Vanjski zrak Ambient air	Određivanje žive u ukupnoj taložnoj tvari zraka atomskom apsorpcijskom spektrometrijom Determination of mercury in total deposition of air by atomic absorption spectrometry Granica kvantifikacije/ Quantification limit 0,07 µgm⁻²/d	Vlastita metoda In-house method SOP-168-053 Izdanje/Edition 01 2018-01-12
154.	Unutarnji zrak Indoor air	Mikrobiološko uzorkovanje zraka Microbiological sampling of air	HRN EN 13098:2019 (EN 13098:2019)
155.		Detekcija i brojanje mikroorganizama Detection and enumeration of microorganisms	ISO 16000-17:2008 HRN EN 13098:2019 (EN 13098:2019)

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range	Metoda ispitivanja Test method
VI – Građevni proizvodi / Construction products			
Proizvodi za inženjerstvo otpadnih voda/ Waste water engineering products			
156.	Kanalizacijski sustavi Sewer systems	Ispitivanje vodonepropusnosti vodom Testing of watertightness by water	HRN EN 1610:2015 ⁽³⁾ (EN 1610:2015) Točka/Clause: 13.3
157.	Građevine odvodnje Sewer constructions	Ispitivanje vodonepropusnosti Testing of watertightness	HRN EN 1508:2007 ⁽³⁾ (EN 1508:1998) Točka/Clause: 8.3
Građevni proizvodi koji su u dodiru s vodom namijenjenom za ljudsku potrošnju/ Construction products in contact with water intended for human consumption			
158.	Vodoopskrbne građevine Water supply constructions	Ispitivanje vodonepropusnosti Testing of watertightness	HRN EN 1508:2007 ⁽³⁾ (EN 1508:1998) Točka/Clause: 8.3
⁽³⁾ Zadovoljava zahtjeve / Satisfies requirements of HAA-Pr-2/12, Pravila za akreditaciju ispitivanja vodoopskrbnih i odvodnih sustava / Rules for accreditation for testing of water supply and drainage systems			

FLEKSIBILNO PODRUČJE AKREDITACIJE/FLEXIBLE SCOPE OF ACCREDITATION

Br. No.	Oznaka/ Identification	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Granica kvantifikacije/ Quantification limit	Tehnika / Technique	Metoda ispitivanja / Test method
I – Hrana i hrana za životinje					
Aditivi (A) Sladila (A1), Kofein i konzervansi (A2), Nitriti (A3), Kontaminanti (B) Ostaci pesticida (B1) –GC-MS/MS (B1-1), UPLC-MS/MS (B1-2), GC-ECD (B1-3), Metali (B2) –AAS: PAAS, MHS, DMA, (B2-1), ICP- MS (B2-2), AAS-ICP-MS(B2-3), Mikotoksini (B3), Nitriti (B4), Cijanurna kiselina (B5), Policiklički aromatski ugljikovodici (B6), Kvaliteta (C), Farmakološki aktivne tvari (D) Kloramfenikol (D1), Sulfonamidi (D2) i Alergeni (E) .					
I – Food and animal feeding stuffs					
Additives (A) Sweeteners (A1), Caffeine and preservatives (A2), Nitrites (A3), Contaminants (B) Pesticide residues (B1) –GC-MS (B1-1), UPLC-MS/MS (B1-2), GC-ECD (B1-3), Metals (B2) – AAS: PAAS, MHS, DMA, (B2-1), ICP- MS (B2-2), AAS-ICP-MS(B2-3), Mycotoxins (B3), Nitrites and nitrites (B4), Cyanuric acid (B5), Polycyclic aromatic hydrocarbons (B6), Quality (C), Pharmacologically active substances (D) Chloramphenicol (D1), Sulfonamides (D2) and Allergens (E).					
1.	I A1	Hrana Food	Određivanje sladila Determination of sweeteners	HPLC UV	Prema popisu metoda dostupnom na www.stampar.hr According to the list of methods available on www.stampar.hr
2.	I A2	Hrana Food	Određivanje kofeina i konzervansa Determination of caffeine and preservatives	HPLC UV	Prema popisu metoda dostupnom na www.stampar.hr According to the list of methods available on www.stampar.hr
3.	I A3	Hrana Food	Određivanje nitrita Determination of nitrites	HPLC UV	Prema popisu metoda dostupnom na www.stampar.hr According to the list of methods available on www.stampar.hr

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4.	I B1-1	Hrana Food	Ostaci pesticida Determination of pesticide residues	GC-MS/MS	Prema popisu metoda dostupnom na www.stampar.hr According the list of methods available on www.stampar.hr
5.	I B1-2	Hrana Food	Ostaci pesticida Determination of pesticide residues	UPLC-MS/MS	Prema popisu metoda dostupnom na www.stampar.hr According the list of methods available on www.stampar.hr
6.	I B1-3	Hrana Food	Ostaci pesticida Determination of pesticide residues	GC-ECD	Prema popisu metoda dostupnom na www.stampar.hr According the list of methods available on www.stampar.hr
7.	I B2-1	Hrana Food	Određivanje metala Determination of metals	AAS (PAAS, MHS, DMA)	Prema popisu metoda dostupnom na www.stampar.hr According the list of methods available on www.stampar.hr
8.	I B2-2	Hrana i hrana za životinje Food and animal feeding stuffs	Određivanje metala Determination of metals	ICP – MS	Prema popisu metoda dostupnom na www.stampar.hr According the list of methods available on www.stampar.hr



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9.	I B3	Hrana Food	Određivanje mikotoksina Determination of mycotoxins	LC-MS/MS UPLC-MS/MS HPLC-FLD	Prema popisu metoda dostupnom na www.stampar.hr According to the list of methods available on www.stampar.hr
10.	I B4	Hrana Food	Određivanje nitrata Determination of nitrates	HPLC UV	Prema popisu metoda dostupnom na www.stampar.hr According to the list of methods available on www.stampar.hr
11.	I B5	Mlijeko Milk	Određivanje cijanurne kiseline Determination of cyanuric acid	LC-MS/MS UPLC-MS/MS	Prema popisu metoda dostupnom na www.stampar.hr According to the list of methods available on www.stampar.hr
12.	I B6	Hrana Food	Određivanje policikličkih aromatskih ugljikovodika Determination of polycyclic aromatic hydrocarbons	HPLC FLD	Prema popisu metoda dostupnom na www.stampar.hr According to the list of methods available on www.stampar.hr
13.	I C1	Hrana Food	Određivanje ugljikohidrata/ Determination of carbohydrates	HPLC RID	Prema popisu metoda dostupnom na www.stampar.hr According to the list of methods available on www.stampar.hr

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14.	ID1	Hrana Food	Određivanje kloramfenikola Determination of chloramphenicol	LC-MS/MS UPLC-MS/MS	Prema popisu metoda dostupnom na www.stampar.hr According to the list of methods available on www.stampar.hr
15.	ID2	Hrana Food	Određivanje sulfonamida Determination of sulfonamides	LC-MS/MS UPLC-MS/MS	Prema popisu metoda dostupnom na www.stampar.hr According to the list of methods available on www.stampar.hr
16.	IE1	Hrana Food	Određivanje alergena Determination of allergens	ELISA	Prema popisu metoda dostupnom na www.stampar.hr According to the list of methods available on www.stampar.hr

II – Voda					
Odabrani elementi (A) Odabrani metali (A1), Odabrani anioni (A2), Odabrani kationi (A3)					
II – Water					
Selected elements (A) Selected metals (A1), Selected anions (A2), Selected cations (A3)					
	II A1	Voda Water	Određivanje metala Determination of metals	ICP –MS	Prema popisu metoda dostupnom na www.stampar.hr According to the list of methods available on www.stampar.hr
17.					
18.	II A2	Voda Water	Određivanje otopljenih aniona Determination of dissolved anions	IC	HRN EN ISO 10304-1:2009 (ISO 10304-1:2007, EN ISO 10304-1:2009)
19.	II A3	Voda Water	Određivanje otopljenih kationa Determination of dissolved cations	IC	HRN EN ISO 14911:2001 (ISO 14911:1998; EN ISO 14911:1999)

III - Predmeti opće uporabe Ftalati (A), Prijelaz (otpuštanje) određenih metala (B): ICP- MS (B1), MHS (B2) III - Objects of common use <i>Phthalates (A), Migration of certain metals (B): ICP- MS (B1) MHS (B2)</i>				
20.	III A1	Predmeti opće uporabe <i>Objects of Common use</i> Igračke <i>Toys</i>	Određivanje ftalata <i>Determination of phthalates</i>	GC-MS Prema popisu metoda dostupnom na www.stampar.hr <i>According the list of methods available on www.stampar.hr</i>
21.	III B1-1	Igračke <i>Toys</i>	Određivanje metala <i>Determination of metals</i>	Prema popisu metoda dostupnom na www.stampar.hr <i>According the list of methods available on www.stampar.hr</i>
22.	III B1-2	Materijali i predmeti koji dolaze u kontakt s hranom <i>Food contact materials and articles</i>	Određivanje metala <i>Determination of metals</i>	Prema popisu metoda dostupnom na www.stampar.hr <i>According the list of methods available on www.stampar.hr</i>
23.	III B1-3	Kozmetički proizvodi <i>Cosmetics</i>	Određivanje metala <i>Determination of metals</i>	Prema popisu metoda dostupnom na www.stampar.hr <i>According the list of methods available on www.stampar.hr</i>
24.	III B2	Igračke <i>Toys</i>	Određivanje žive <i>Determination of mercury</i>	Prema popisu metoda dostupnom na www.stampar.hr <i>According the list of methods available on www.stampar.hr</i>

Br. No.	Oznaka/ Identification	Materijal/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Granica kvantifikacije/ Quantification limit	Tehnika / Technique	Metoda ispitivanja / Test method
IV - Otpad, voda, tlo, muljevi i eluati Odabrani elementi (A) Odabrani metali (A1), Odabrani anioni (A2), Odabrani pesticidi (A3) IV - Waste, water, soil, sludges and eluate Selected elements (A) Selected metals (A1), Selected anions (A2), Selected pesticides (A3)					
25.	IV A1	Tlo, mulj, kruti i tekući otpad Soil, sludge, solid and liquid waste Eluati tla i otpada Soil and waste eluates	Određivanje metala Determination of metals	AAS	Prema popisu metoda dostupnom na www.stampar.hr According to the list of methods available on www.stampar.hr
26.	IV A2	Eluati tla i otpada Soil and waste eluates	Određivanje otopljenih aniona Determination of dissolved anions	IC	HRN EN ISO 10304-1:2009 (ISO 10304-1:2007, EN ISO 10304-1:2009)
27.	IV A3	Tlo Soil	Određivanje pesticida Determination of pesticide residues	GC-MS/MS	Prema popisu metoda dostupnom na www.stampar.hr According to the list of methods available on www.stampar.hr

Napomena/Note:

- HPLC- RID: tekućinska kromatografija visoke djelotvornosti s refraktometrijskom detekcijom, (*engl. high performance liquid chromatography with refractometric detection, HPLC-RID*)
- HPLC- UV: tekućinska kromatografija visoke djelotvornosti s detekcijom u ultraljubičastom području (*engl. high performance liquid chromatography with ultraviolet detection, HPLC – UV*)
- HPLC- FLD: tekućinska kromatografija visoke djelotvornosti s fluorescencijskom detekcijom, (*engl. high performance liquid chromatography with fluorescence detection, HPLC-FLD*)
- AAS: atomska apsorpcijska spektrometrija, (*engl. atomic absorption spectrometry, AAS*)
- PAAS: plamena tehnika, (*engl. Flame technique, FAAS*)
- MHS: hidridna tehnika, (*engl. hydride technique or (Metal Hydrid System, MHS)*)
- GC-MS: plinska kromatografija-spektrometrija masa (*engl. gas chromatography-mass spectrometry, GC-MS*)
- GC-MS/MS: plinska kromatografija spregnuta s tandemnom spektrometrijom masa (*engl. Gas chromatography- tandem mass spectrometry, GC-MS/MS*)
- GC-ECD: Plinska kromatografija uz detektor zahvata elektrona (*engl. Gas chromatography-Electron capture detector, GC-ECD*)
- ICP MS: induktivno spregnute plazme i spektrometrije masa, (*engl. Inductively coupled plasma – mass spectrometry, ICP-MS*)
- LC-MS/MS: tekućinska kromatografija i višestruka spektrometrija masa (*engl. Liquid chromatography – tandem mass spectrometry, LC-MS/MS*)
- IC: ionska kromatografija (*engl. Ion-exchange chromatography, IC*)
- UPLC-MS/MS: tekućinska kromatografija ultravisoke djelotvornosti spregnuta s tandemnim spektrometrom masa (*engl. Ultra performance liquid chromatography – tandem mass spectrometry, UPLC-MS/MS*)
- ELISA: imunoenzimatska tehnika (*engl. Enzyme-linked immunosorbent assay*)

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 methods in 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 www.stampar.hr
The valid list of accredited methods in the flexible scope is available on www.stampar.hr

