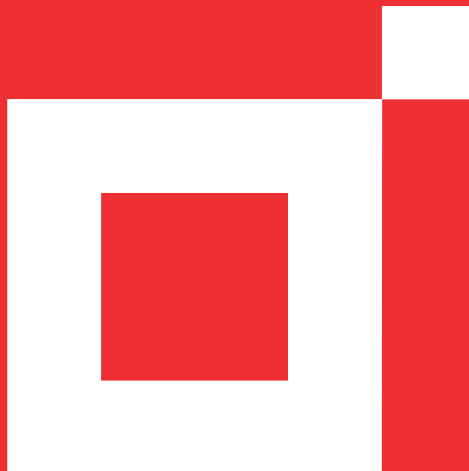




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Ispitivanje voda, hrane i kontrola mikrobiološke čistoće objekata
Uzorkovanje voda i okolišnih uzoraka
Testing of waters, food and facilities hygiene control
Sampling of waters and environmental samples

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.: 1272
Klasa/Ref.No.: 383-02/20-30/026
Urbroj/Id.No.: 569-02/3-23-13
Zagreb, 2023-03-17

Akreditacija istječe-Accreditation expiry: 2026-02-03
Prva akreditacija-Initial accreditation: 2010-10-25

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PRILOG POTVRDI O AKREDITACIJI br.: 1272

Annex to Accreditation Certificate Number:

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Datum izdanja priloga /Annex Issued on: 2024-02-16

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Initial accreditation:

Akreditirani laboratorij

Accredited Laboratory

ZAVOD ZA JAVNO ZDRAVSTVO VARAŽDINSKE ŽUPANIJE

Djelatnost za zdravstvenu ekologiju

Ivana Meštrovića 1/11, HR-42000 Varaždin

Područje akreditacije:

Scope of Accreditation

Ispitivanje voda, hrane i kontrola mikrobiološke čistoće objekata

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Director General:

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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.		Određivanje otopljenih aniona ionskom tekućinskom kromatografijom – 1. dio: Određivanje klorida, fluorida, nitrata, nitrita, fosfata i sulfata <i>Determination of dissolved anions by liquid chromatography of ions – Part 1: Determination of, chloride, fluoride, nitrate, nitrite, phosphate and sulfate</i> Granica kvantifikacije/<i>Quantification limit:</i> F⁻ 0,040 mg/L Cl⁻ 0,10 mg/L NO₃⁻ 0,10 mg/L NO₂⁻ 0,01 mg/L SO₄²⁻ 0,10 mg/L PO₄³⁻/P 0,025 mg/L	HRN EN ISO 10304-1:2009 (ISO 10304-1:2007; EN ISO 10304-1:2009)
2.	Voda za ljudsku potrošnju, podzemne, površinske i otpadne vode <i>Water for human consumption, ground water, surface water and waste water</i>	Određivanje otopljenih Li⁺, Na⁺, NH₄⁺, K⁺, Ca²⁺, Mg²⁺, ionskom kromatografijom <i>Determination of dissolved Li⁺, Na⁺, NH₄⁺, K⁺, Ca²⁺, Mg²⁺ using ion chromatography</i> Granica kvantifikacije/<i>Quantification limit:</i> Na⁺ 0,1 mg/L NH₄⁺ 0,1 mg/L K⁺ 0,1 mg/L Ca²⁺ 0,5 mg/L Mg²⁺ 0,1 mg/L	HRN EN ISO 14911:2001 (ISO 14911:1998; EN ISO 14911:1999)
3.		Određivanje pH vrijednosti <i>Determination of pH</i> 3 pH do/to 10 pH	HRN EN ISO 10523:2012 (EN ISO 10523:2012; ISO 10523:2008)
4.		Određivanje električne vodljivosti <i>Determination of electrical conductivity</i> Granica kvantifikacije/<i>Quantification limit:</i> 0,1 µS/cm	HRN EN 27888:2008 (ISO 7888:1985; EN 27888:1993)

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range	Metoda ispitivanja Test method
5.	Voda za ljudsku potrošnju, površinske vode i podzemne vode Water for human consumption, surface water and ground water	Određivanje mutnoće, kvantitativna metoda mjerenja optičkim turbidimetrom <i>Determination of turbidity, a quantitative method of measuring by optical turbidimeter</i> Granica kvantifikacije/ <i>Quantification limit:</i> 0,20 NTU	HRN EN ISO 7027-1:2016 (ISO 7027-1:2016; EN ISO 7027-1:2016)
6.	Voda za ljudsku potrošnju, bazenske, površinske, podzemne i otpadne vode Water for human consumption, pool water, surface water, ground water and waste water	Određivanje slobodnog i ukupnog klora – 2 dio: Kolorimetrijska metoda sa N, N – dietil – 1,4 – fenilendiaminom u svrhu rutinske kontrole <i>Determination of free chlorine and total chlorine part two – Colorimetric method using N, N – diethyl – 1,4 – phenylenediamine, for routine control purposes</i> Granica kvantifikacije/ <i>Quantification limit:</i> 0,10 mg /L Cl ₂	HRN EN ISO 7393-2:2018 (ISO 7393-2:2017; EN ISO 7393-2:2018)
7.	Voda za ljudsku potrošnju, prirodne izvorske, prirodne mineralne, stolne vode, površinske vode, podzemne i otpadne vode Water for human consumption, natural mineral water, natural spring water, table water, surface water, ground water, waste water	Detekcija i brojenje crijevnih enterokoka – 2. dio: Metoda membranske filtracije <i>Detection and enumeration of intestinal enterococci - Part 2: Membrane filtration method</i>	HRN EN ISO 7899-2:2000 (ISO 7899-2:2000; EN ISO 7899-2:2000)
8.	Voda za ljudsku potrošnju, podzemne vode, otpadne vode Water for human consumption, ground water, waste water	Određivanje žive tehnikom atomske apsorpcijske spektrofotometrije uz amalgamiranje <i>Determination of mercury by thermal decomposition, amalgamation and atomic absorption spectrophotometry</i> Granica kvantifikacije/ <i>Quantification limit:</i> 0,6 µg/L	Vlastita metoda/ <i>In-house method</i> P-7.2.1-22, izd. 1, 2020-06-08

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range	Metoda ispitivanja Test method
9.	Meso i mesni proizvodi Meat and meat products	Određivanje količine hidroksiprolina / Determination of hydroxyproline	HRN ISO 3496:1999 (ISO 3496:1994)
10.		Određivanje sadržaja vode Determination of moisture content	ISO 1442:1997
11.		Određivanje sadržaja ukupne masti / Determination of total fat	HRN ISO 1443:1999 (ISO 1443:1973)
12.	Hrana Food	Određivanje dušika metodom po Kjeldahlu Determination of nitrogen by the Kjeldahl method	HRN ISO 1871:2017 (ISO 1871:2009)
13.	Hrana, okolišni uzorci u proizvodnji hrane Food, environmental samples in food production	Metoda za dokazivanje prisutnosti i određivanje broja <i>Listeria monocytogenes</i> i drugih <i>Listeria</i> spp. – 1. dio: Metoda dokazivanja prisutnosti Method for the detection and enumeration of <i>Listeria monocytogenes</i> and other <i>Listeria</i> spp. – Part 1: Detection method	HRN EN ISO 11290-1:2017 (ISO 11290-1:2017; EN ISO 11290-1:2017)
14.		Metoda za dokazivanje prisutnosti, određivanje broja i serotipizaciju <i>Salmonella</i> – 1.dio: Dokazivanje prisutnosti <i>Salmonella</i> spp. Method for the detection, enumeration and serotyping of <i>Salmonella</i> – Part 1: Detection of <i>Salmonella</i> spp.	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/AMD 1:2020)
15.	Žitarice i proizvodi od žitarica Cereals and cereal products	Određivanje ukupne masti Determination of total fat content	HRN EN ISO 11085:2015 (ISO 11085:20015; EN ISO 11085:2015)
16.		Određivanje količine vode Determination of moisture content	Vlastita metoda/ In-house method P-7.2.1-11, izd. 1, 2020-06-08 modificirana/modified HRN EN ISO 712:2010 (ISO 712:2009; EN ISO 712:2009)

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range	Metoda ispitivanja Test method
17.		Horizontalna metoda za određivanje broja mikroorganizama – 1. dio Određivanje broja kolonija pri 30 °C tehnikom zalijevanja podloge <i>Horizontal method for the enumeration of microorganisms – Part 1. Colony count at 30 °C by the pour plate technique</i>	HRN EN ISO 4833-1:2013/A1:2022 (ISO 4833-1:2013/Amd 1:2022; EN ISO 4833-1:2013/A1:2022)
18.	Hrana Food	Horizontalna metoda određivanja broja koagulaza-pozitivnih stafilokoka (<i>Staphylococcus aureus</i> i ostale vrste) - 1. dio: Postupak primjene Baird-Parkerove hranjive podloge na agaru <i>Horizontal method for the enumeration of coagulase-positive staphylococci (Staphylococcus aureus and other species) -- Part 1: Technique using Baird-Parker agar medium</i>	HRN EN ISO 6888-1:2021 (ISO 6888-1:2021; EN ISO 6888-1:2021)
19.	Hrana, okolišni uzorci u proizvodnji hrane Food, environmental samples in food production	Metoda za dokazivanje prisutnosti i određivanje broja <i>Listeria monocytogenes</i> i drugih <i>Listeria</i> spp.– 2. dio: Metoda određivanja broja <i>Method for the detection and enumeration of Listeria monocytogenes and of Listeria spp. -- Part 2: Enumeration method</i>	HRN EN ISO 11290-2:2017 (ISO 11290-2:2017; EN ISO 11290-2:2017)
20.	Životinjske i biljne masti i ulja Animal and vegetables fats and oils	Određivanje kiselinskog broja i kiselosti <i>Determination of acid value and acidity</i>	HRN EN ISO 660:2020 (ISO 660:2020; EN ISO 660:2020)
21.		Određivanje peroksidnog broja <i>Determination of the peroxide value</i>	HRN EN ISO 3960:2017 (ISO 3960:2017, EN ISO 3960:2017)
22.	Životinjske i biljne masti i ulja Animal and vegetables fats and oils	Određivanje sadržaja vode <i>Determination of water content</i>	Vlastita metoda/ In-house method P-7.2.1-09, izd. 1, 2020-06-08

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range	Metoda ispitivanja Test method
23.	Voda za ljudsku potrošnju, prirodne	Detekcija i brojenje <i>Escherichia coli</i> i koliformnih bakterija – Metoda membranske filtracije <i>Detection and enumeration of Escherichia coli and coliform bacteria – Membrane filtration method</i>	HRN EN ISO 9308-1:2014 (ISO 9308-1:2014; EN ISO 9308-1:2014) HRN EN ISO 9308-1:2014/ A1:2017 (ISO 9308-1:2014/ Amd 1:2016; EN ISO 9308-1:2014/ A1:2017)
24.	izvorske, prirodne mineralne, stolne vode, površinske vode, podzemne i otpadne vode <i>Water for human consumption, natural mineral water, natural spring water, table water, surface water, ground water and waste water</i>	Brojenje uzgojenih mikroorganizama - - Broj kolonija naciepljivanjem na hranjivi agar <i>Enumeration of culturable micro-organisms -- Colony count by inoculation in a nutrient agar culture medium</i>	HRN EN ISO 6222:2000 (ISO 6222:1999, EN ISO 6222:1999)
25.		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)
26.		Brojenje <i>Clostridium perfringens</i> - Metoda membranske filtracije <i>Enumeration of Clostridium perfringens – Method using membrane filtration</i>	HRN EN ISO 14189:2016 (ISO 14189:2013; EN ISO 14189:2016)
27.	Okolišni uzorci u proizvodnji hrane <i>Environmental samples in food production</i>	Horizontalne metode za postupke uzorkovanja s površine <i>Horizontal methods for sampling technique</i>	HRN EN ISO 18593:2019 (ISO 18593:2018; EN ISO 18593:2018)
28.	Voda za ljudsku potrošnju, prirodna, mineralna, prirodna izvorska, stolna voda, voda za kupanje, bazenska voda, površinska, podzemna i otpadna voda <i>Water for human consumption, natural mineral water, natural spring water, table water, bathing water, pool water, surface water, ground water and waste water</i>	Spektrofotometrijsko određivanje boje - Hach-Lange metoda <i>Determination of colour by spectrophotometric method - Hach-Lange method</i> Granica kvantifikacije/ <i>Quantification limit:</i> 5 mg /L PtCo	Vlastita metoda/ <i>In-house method</i> P-7.2.1-23, izd. 1, 2020-06-08

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range	Metoda ispitivanja Test method
29.	Voda za ljudsku potrošnju, prirodna, mineralna, prirodna izvorska, stolna voda, voda za kupanje, bazenska voda, površinska, podzemna i otpadna voda <i>Water for human consumption, natural mineral water, natural spring water, table water, bathing water, pool water, surface water, ground water and waste water</i>	Spektrofotometrijsko određivanje neionskih detergenata - Hach-Lange metoda <i>Determination of nonionic surfactants by spectrophotometric method - Hach-Lange method</i> Granica kvantifikacije/ <i>Quantification limit:</i> 0,1 mg/L	Vlastita metoda/ <i>In-house method</i> P-7.2.1-24, izd. 1, 2020-06-08
30.	Voda za ljudsku potrošnju, prirodna, mineralna, prirodna izvorska, stolna voda, voda za kupanje, bazenska voda, površinska i podzemna voda <i>Water for human consumption, natural mineral, spring water, table water, bathing water, pool water, surface and ground water</i>	Određivanje utroška KMnO ₄ metodom vizualne titracije -Metoda po Kübel-Tiemannu <i>Determination of potassium permanganate consumption by visual titration method - Kübel-Tiemann method</i> Granica kvantifikacije/ <i>Quantification limit:</i> 0,20 mg/L O ₂	Vlastita metoda/ <i>In-house method</i> P-7.2.1-29, izd. 1, 2020-06-08
31.	Voda za ljudsku potrošnju, bazenska voda, površinska, podzemna i otpadna voda <i>Water for human consumption, pool water, surface water, ground water and waste water</i>	Određivanje ukupnog organskog ugljika (UOU) i otopljenog organskog ugljika; (OOU) - Hach-Lange metoda <i>Determination of total organic carbon (TOC) and dissolved organic carbon; (DOC) – Hach-Lange method</i> Granica kvantifikacije/ <i>Quantification limit:</i> 1,0 mg /L C	Vlastita metoda/ <i>In-house method</i> P-7.2.1-32, izd. 1, 2020-06-08
32.	Vode prirodnih i umjetnih jezera <i>Water in natural and artificial lakes</i>	Uzorkovanje <i>Sampling</i>	HRN ISO 5667-4:2016 <i>(ISO 5667-4:2016)</i>

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range	Metoda ispitivanja Test method
33.	Vode rijeka i potoka Water in rivers, streams,	Uzorkovanje Sampling	HRN EN ISO 5667-6:2016 (ISO 5667-6:2014; EN ISO 5667-6:2016) HRN EN ISO 5667-6:2016/A11:2020 (EN ISO 5667-6:2016/ A11:2020) HRN ISO 19458:2008 (ISO 19458:2006; EN ISO 19458:2006)
34.	Otpadna voda Waste water	Uzorkovanje Sampling	HRN ISO 5667-10:2020 (ISO 5667-10:2020)
35.	Voda za ljudsku potrošnju i bazenska voda Water for human consumption and pool water	Uzorkovanje Sampling	HRN ISO 5667-5:2011 (ISO 5667-5:2006) HRN ISO 19458:2008 (ISO 19458:2006; EN ISO 19458:2006)
36.	Hrana Food	Određivanje glutena ELISA metodom Determination of gluten by ELISA method	Vlastita metoda/ In-house method P-7.2.1-33, izd.1, 2020-06-08
37.	Meso i mesni proizvodi Meat and meat products	Određivanje nitrita u mesu i mesnim proizvodima spektrofotometrijskom metodom Determination of nitrites in meat and meat products by spectrophotometric method	Vlastita metoda/ In-house method P-7.2.1-34, izd. 1, 2020-06-08
38.	Hrana Food	Određivanje ukupnog pepela spaljivanjem Determination of ash yield by incineration	Vlastita metoda/ In-house method P-7.2.1-35, izd. 3, 2023-09-06 modificirana/modified HRN EN ISO 2171:2023 (ISO 2171:2023; EN ISO 2171:2023)
39.	Jodirana kuhinjska sol Iodized table salt	Određivanje sadržaja kalijevog jodida Determination of iodine content	Vlastita metoda/ In-house method P-7.2.1-36, izd. 1, 2020-06-08

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range	Metoda ispitivanja Test method
40.	Površinska i otpadna voda Surface water and waste water	Određivanje kemijske potrošnje kisika - Hach – Lange metoda Determination of chemical oxygen demand - Hach – Lange method Granica kvantifikacije/ Quantification limit: 5,0 mg/L	Vlastita metoda/ In-house method P-7.2.1 -45, izd. 1, 2020-06-08
41.	Voda za ljudsku potrošnju, podzemna, površinska, otpadna voda i bazenska voda Water for human consumption, ground water, surface water, waste water and pool water	Određivanje anionskih detergenata - Hach – Lange metoda Determination of anionic surfactants - Hach – Lange method Granica kvantifikacije/ Quantification limit: 0,05 mg/L	Vlastita metoda/ In-house method P-7.2.1-46, izd. 2, 2023-08-24
42.	Površinska i otpadna voda Surface water and waste water	Određivanje adsorbibilnih organskih halogena - Hach – Lange metoda Determination of adsorbable organic halides - Hach – Lange method Granica kvantifikacije/ Quantification limit: 0,02 mg/L	Vlastita metoda/ In-house method P-7.2.1-47, izd. 1, 2020-06-08
43.	Voda za ljudsku potrošnju, podzemna i površinska voda, Water for human consumption, ground water and surface water	Određivanje koncentracije ugljikovodika metodom plinske kromatografije Determination of hydrocarbon by gas chromatography Granica kvantifikacije/ Quantification limit: 20,0 µg/L	HR EN ISO 9377-2:2002 (ISO 9377-2:2000; EN ISO 9377-2:2000)

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range	Metoda ispitivanja Test method
44.	Voda za ljudsku potrošnju, prirodne izvorske vode, prirodne mineralne vode, stolne vode, podzemne vode, površinske vode, bazenske vode i otpadne vode <i>Water for human consumption, natural spring water, natural mineral table water, ground water, surface water, pool water and waste water</i>	Određivanje temperature vode – termometrija <i>Determination of water temperature - thermometric method</i>	Vlastita metoda/ <i>In-house method</i> P-7.2.1-40, izd. 1, 2020-06-08 Standard methods, 20th edition, 2550 A., 2550 B.
45.	Voda za ljudsku potrošnju, prirodne izvorske vode, prirodne mineralne vode, stolne vode, podzemne vode, površinske vode, bazenske vode i otpadne vode <i>Water for human consumption, natural spring water, natural mineral table water, ground water, surface water, pool water and waste water</i>	Određivanje mirisa <i>Odor determination</i>	Vlastita metoda/ <i>In-house method</i> P-7.2.1-41, izd. 1, 2020-06-08 Standard methods, 20th edition, 2150, 2150 B.
46.	Voda za ljudsku potrošnju, prirodne izvorske, prirodne mineralne, stolne vode <i>Water for human consumption, natural spring water, natural mineral water, table water</i>	Određivanje okusa <i>Flavor determination</i>	Vlastita metoda/ <i>In-house method</i> P-7.2.1-42, izd. 1, 2020-06-08 Standard methods, 20th edition, 2160 A, 2160 B.

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range	Metoda ispitivanja Test method
47.	Voda za ljudsku potrošnju, prirodne izvorske, prirodne mineralne, stolne vode, podzemne, površinske, bazenske i otpadne vode Water for human consumption, natural spring water, natural mineral, table water, groundwater, surface, pool water and waste water	Određivanje ukupnog alkaliteta volumetrijskom metodom Determination of total alkalinity by volumetric method Granica kvantifikacije/Quantification limit: 2 mg /L CaCO ₃	Vlastita metoda/ In-house method P-7.2.1-44, izd. 1, 2020-06-08
48.	Površinske i otpadne vode Surface water and waste water	Određivanje ukupnog dušika spektrofotometrijskom metodom - Hach – Lange metoda Determination of total nitrogen by spectrophotometric method – Hach – Lange method Granica kvantifikacije/Quantification limit: 0,40 mg /L N	Vlastita metoda/ In-house method P-7.2.1-43, izd. 1, 2020-06-08
49.	Voda za ljudsku potrošnju Water for human consumption	Određivanje enterovirusa, norovirusa i virusa hepatitisa A Detection of enteroviruses, noroviruses and hepatitis A virus	Vlastita metoda/ In-house method P-7.2.1-39, izd. 1, 2020-06-08
50.	Hrana Food	Metoda brojenja beta-glucuronidasa pozitivne <i>Escherichia coli</i> - 2.dio: Brojenje kolonija pri 44 °C uporabom 5-bromo-4-chloro-3-indolyl beta-D-glucuronida Microbiology of food and animal feeding stuffs – Horizontal method for the enumeration of beta-glucuronidase positive <i>Escherichia coli</i> – Part 2: Colony-count technique at 44 °C using 5-bromo-4-chloro-3-indolyl beta-D-glucuronide	HRN ISO 16649-2:2001 (ISO 16649-2:2001)
51.	Hrana, okolišni uzorci u proizvodnji hrane Food, Environmental samples in food production	Horizontalna metoda za dokazivanje prisutnosti i brojenje <i>Enterobacteriaceae</i> – 2. dio: Metoda određivanja broja kolonija Microbiology of food and animal feeding stuffs – Horizontal method for the detection and enumeration of <i>Enterobacteriaceae</i> – Part 2: Colony-count technique	HRN EN ISO 21528-2:2017 (ISO 21528-2:2017; EN ISO21528-2:2017)

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range	Metoda ispitivanja Test method
52.	Hrana, životinjske i biljne masti i ulja, osim mlijeka i mliječnih masti <i>Food, animal and vegetable fats and oils, except milk and milk fat</i>	Određivanje zasićenih masnih kiselina plinskom kromatografijom <i>Determination of saturated fatty acids by gas chromatography</i>	Vlastita metoda/ <i>In-house method</i> P-7.2.1-65, izd. 1, 2020-06-08
53.	Hrana <i>Food</i>	Određivanje sadržaja soli <i>Salt content determination</i>	Vlastita metoda/ <i>In-house method</i> P-7.2.1-64, izd. 1, 2020-06-08
54.	Voda za ljudsku potrošnju, podzemne, površinske, bazenske i otpadne vode <i>Water for human consumption, ground water, surface water, pool water and waste water</i>	Određivanje kationskih detergenata – Hach- Lange metoda <i>Determination of cationic surfactants - Hach – Lange method</i> Granica kvantifikacije/ <i>Quantification limit:</i> 0,13 mg/L	Vlastita metoda/ <i>In-house method</i> P-7.2.1-54 izd. 1, 2020-06-08
55.	Površinske i otpadne vode <i>Surface water and waste water</i>	Određivanje biokemijske potrošnje kisika nakon 5 dana - Hach- Lange metoda <i>Determination of biochemical oxygen demand after 5 days - Hach – Lange method</i> (0 do/to 4000) mg O ₂ /L	Vlastita metoda/ <i>In-house method</i> P 7.2.1-55 izd. 1, 2 020-06-08

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range	Metoda ispitivanja Test method
56.	Voda za ljudsku potrošnju, podzemne i bazenske vode Water for human consumption, ground water and pool water	Određivanje lakohlapljivih halogeniranih ugljikovodika Determination of highly volatile halogenated hydrocarbons Granica kvantifikacije/Quantification limit: Kloroform / Chloroform 1,0 µg/L 1,2-Dikloretan / 1,2-Dichloroethane 1,0 µg/L Trikloretan / Trichloroethene 1,0 µg/L Bromdiklormetan / Bromodichlormethane 1,0 µg/L Tetrakloeten / Tetrachlorethene 1,0 µg/L Dibromklormetan / Dibromochloromethane 1,0 µg/L Bromoform / Bromoform 1,0 µg/L	HRN EN ISO 10301:2002 (ISO 10301:1997; EN ISO 10301:1997)
57.	Voda za ljudsku potrošnju, podzemne i površinske vode Water for human consumption, ground water and surface water	Određivanje ukupne tvrdoće volumetrijskom metodom s EDTA Total hardness; Water quality - determination of the sum of calcium and magnesium - EDTA titrimetric method Granica kvantifikacije/Quantification limit: 2,0 mg /L CaCO₃	HRN ISO 6059:1998 (ISO 6059:1984)
58.	Voda za ljudsku potrošnju, podzemne i površinske vode Water for human consumption, ground water and surface water	Određivanje kalcijeve tvrdoće volumetrijskom metodom s EDTA Water quality - determination of calcium hardness by EDTA titrimetric method Granica kvantifikacije/Quantification limit: 2,0 mg /L CaCO₃	Vlastita metoda/ In-house method RU-7.2.1-58, izd. 1, 2020-06-08

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range	Metoda ispitivanja Test method
59.		Određivanje magnezijeve tvrdoće – računski - razlika ukupne i kalcijeve tvrdoće volumetrijskom metodom s EDTA <i>Water quality - determination of magnesium hardness –calculation - the difference between total hardness and calcium hardness by EDTA titrimetric method</i> Granica kvantifikacije/<i>Quantification limit:</i> 2,0 mg /L CaCO₃	Vlastita metoda/ <i>In-house method</i> RU-7.2.1-59, izd.1, 2020-06-08
60.		Određivanje ukupne tvrdoće računskom metodom <i>Determination of total hardness by calculation method</i> Granica kvantifikacije/<i>Quantification limit:</i> 2,0 mg /L CaCO₃	Standard methods, 20th edition, 1998. 2340A, 2340B RU-7.2.1-60 izd.1, 2020-06-08
61.		Određivanje kalcijeve tvrdoće računskom metodom <i>Determination of calcium hardness by calculation method</i> Granica kvantifikacije/<i>Quantification limit:</i> 1,0 mg /L CaCO₃	Vlastita metoda/ <i>In-house method</i> RU-7.2.1-61, izd.1, 2020-06-08
62.		Određivanje magnezijeve tvrdoće računskom metodom <i>Determination of magnesium hardness by calculation method</i> Granica kvantifikacije/<i>Quantification limit:</i> 0,1 mg /L CaCO₃	Vlastita metoda/ <i>In-house method</i> RU-7.2.1-62, izd.1, 2020-06-08

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range	Metoda ispitivanja Test method
63.	Voda za ljudsku potrošnju, podzemne, površinske i otpadne vode Water for human consumption, ground water, surface water and waste water	Kakvoća vode – Određivanje suspendiranih tvari – Metoda filtriranjem kroz filter od staklenih vlakana Water quality –Determination of suspended solids - Method by filtration through glass fibre filters Granica kvantifikacije/Quantification limit: 5,0 mg/L	HRN EN 872:2008 (EN 872:2005)
64.		Određivanje saliniteta – Hach-Lange metoda Determination of salinity – Hach-Lange method (0 do/to 42) ‰	Vlastita metoda/ In-house method P-7.2.1-50, izd. 1, 2020-06-08
65.	Voda za ljudsku potrošnju, podzemne, površinske i otpadne vode Water for human consumption, ground water, surface water and waste water	Određivanje ukupnih otopljenih tvari, Hach-Lange metoda Determination of total dissolved solids, Hach-Lange method (0 do/to 50 000)	Vlastita metoda/ In-house method P-7.2.1-51, izd. 2, 2022-07-25
66.	Water for human consumption, ground water, surface water and waste water	Određivanje oksido-redukcijskog potencijala, Hach-Lange metoda Determination of redox potential, Hach-Lange method (-1200 do/to +1200) mV	Vlastita metoda/ In-house method P-7.2.1-52, izd. 1, 2020-06-08
67.	Voda za ljudsku potrošnju, podzemne, površinske, bazenske i otpadne vode Water for human consumption, ground water, surface water, pool water and waste water	Određivanje otopljenog kisika optičkom sondom, Hach-Lange metoda Determination of dissolved oxygen by luminescence-based sensor, Hach-Lange method (0,10 do/to 20,0) mg/L O ₂	Vlastita metoda/ In-house method P-7.2.1-53, izd. 1, 2020-09-30
68.	Otpadne vode Waste water	Određivanje ukupnih ulja i masti metodom infracrvene spektroskopije Determination of total oil and grease using infrared spectroscopy method Granica kvantifikacije/Quantification limit: 5,0 mg/L	Vlastita metoda/ In-house method P-7.2.1-66, izd. 2, 2023-08-23

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range	Metoda ispitivanja Test method
69.	Otpadne vode Waste water	Određivanje ukupnih ugljikovodika metodom infracrvene spektroskopije <i>Determination of total hydrocarbons using infrared spectroscopy method</i> Granica kvantifikacije/<i>Quantification limit:</i> 3,0 mg/L	Vlastita metoda/ <i>In-house method</i> P-7.2.1-67, izd. 2, 2023-07-28
70.	Voda za ljudsku potrošnju, podzemna voda, površinska voda <i>Water for human consumption, ground water, surface water</i>	Određivanje silicija i otopljenog silicija spektrofotometrijskom metodom <i>Determination of silicon and dissolved silicon by spectrophotometric method</i> Granica kvantifikacije/ <i>Quantification limit:</i> 0,1 mg/L SiO₂	Vlastita metoda/ <i>In-house method</i> P-7.2.1-68, izd. 1, 2020-06-08
71.	Voda za ljudsku potrošnju, podzemne, površinske i otpadne vode <i>Water for human consumption, ground water, surface water, waste water</i>	Određivanje amonija spektrofotometrijskom metodom: Hach-Lange metoda <i>Determination of amonia by spectrophotometric method</i> Granica kvantifikacije/<i>Quantification limit:</i> voda za ljudsku potrošnju, podzemna i površinska voda <i>water for human consumption, ground water, surface water:</i> 0,02 mg/L NH₄⁺ otpadna voda / <i>waste water:</i> 2 mg/L NH₄⁺	Vlastita metoda/ <i>In-house method</i> P-7.2.1-80, izd. 1, 2020-09-03
72.	Hrana <i>Food</i> Mikrobiologija hrane i hrane za životinje <i>Microbiology of food and animal feeding stuffs</i>	Mikrobiologija hrane i hrane za životinje - Horizontalna metoda za brojenje kvasaca i plijesni - 1. dio: Tehnika brojenja kolonija u proizvodima s aktivitetom ≥ 0,95 <i>Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of yeasts and moulds - Part 1: Colony count technique in products with water activity ≥ 0,95</i>	HRN ISO 21527-1:2012 (ISO 21527-1:2008)

Br. No.	Materijali/Proizvodi <i>Materials/Products</i>	Vrsta ispitivanja/Svojstvo <i>Type of test/Property</i> <i>Raspon/Range</i>	Metoda ispitivanja <i>Test method</i>
73.	Hrana <i>Food</i> Mikrobiologija hrane i hrane za životinje <i>Microbiology of food and animal feeding stuffs</i>	Mikrobiologija hrane i hrane za životinje - Horizontalna metoda za brojenje kvasaca i plijesni - 2. dio: Tehnika brojenja kolonija u proizvodima s aktivitetom vode $\leq 0,95$ <i>Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of yeasts and moulds - Part 2: Colony count technique in products with water activity $\leq 0,95$</i>	HRN ISO 21527-2:2012 (ISO 21527-2:2008)
74.	Voda za ljudsku potrošnju, podzemne, površinske, bazenske i otpadne vode <i>Water for human consumption, ground water, surface water, pool water and waste water</i>	Kvaliteta vode – Brojenje Legionella <i>Water quality – Enumeration of Legionella</i>	HRN EN ISO 11731:2017 (ISO 11731:2017; EN ISO 11731:2017)

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range	Metoda ispitivanja Test method
75.	Voda za ljudsku potrošnju, podzemne, površinske, bazenske i otpadne vode Water for human consumption, ground water, surface water, pool water and waste water	Određivanje policikličkih aromatskih spojeva (PAH) metodom HPLC-FLD <i>Determination of polycyclic aromatic hydrocarbons (PAH) using HPLC-FLD</i> Granica kvantifikacije/<i>Quantification limit:</i> naftalen / <i>naphthalene</i> 0,0002 µg/L acenaften / <i>acenaphthene</i> 0,0001 µg/L fluoren / <i>fluorene</i> 0,0002 µg/L fenantren / <i>phenanthrene</i> 0,0002 µg/L antracen / <i>anthracene</i> 0,0002 µg/L fluoranten / <i>fluoranthene</i> 0,0004 µg/L piren / <i>pyrene</i> 0,0004 µg/L krizen / <i>chrysene</i> 0,0002 µg/L benzo[a]antracen / <i>benz[a]anthracene</i> 0,0001 µg/L benzo[b]fluoranten / <i>benzo[b]-fluoranthene</i> 0,0002 µg/L benzo[k]fluoranten / <i>benzo[k]-fluoranthene</i> 0,0002 µg/L benzo[a]piren / <i>benzo[a]pyrene</i> 0,0001 µg/L indeno[1,2,3-c,d]piren / <i>indeno[1,2,3- cd]pyrene</i> 0,0002 µg/L dibenzo[a,h]antracen / <i>dibenzo[a,h] anthracene</i> 0,0002 µg/L benzo[g,h,i]perilen / <i>benzo[g,h,i] perylene</i> 0,0002 µg/L	Vlastita metoda/ <i>In-house method</i> P-7.2.1-79, izd. 1, 2020-06-08

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range	Metoda ispitivanja Test method
76.	Hrana Food	Određivanje šećera u hrani metodom HPLC-RID (pojedinačni i ukupni), pojedinačni šećeri (fruktoza, glukoza, saharoza, maltoza, laktoza) <i>Determination of sugars in food - liquid chromatographic method with RI detector (fructose, glucose, sucrose, maltose, lactose)</i>	Vlastita metoda/ <i>In-house method</i> P-7.2.1-78, izd. 3, 2022-11-25
77.	Voda za ljudsku potrošnju, podzemne, površinske, bazenske i otpadne vode <i>Water for human consumption, ground water, surface water, pool water and waste water</i>	Određivanje koncentracije arsena, olova, kadmija i kroma metodom atomske apsorpcijske spektrometrije s grafitnom peći <i>Determination of arsenic, lead, cadmium and chromium by atomic absorption spectrometry</i> Granica kvantifikacije/ <i>Quantification limit:</i> As 1,0 µg/L Pb 1,0 µg/L Cd 0,5 µg/L Cr 1,0 µg/L	HRN EN ISO 15586:2008 (ISO 15586:2003; EN ISO 15586:2003)
78.	Voda za ljudsku potrošnju, podzemne, površinske, bazenske i otpadne vode <i>Water for human consumption, ground water, surface water, pool water and waste water</i>	Određivanje koncentracije ukupnih i otopljenih elemenata <i>Determination of total and dissolved elements</i> Granica kvantifikacije/ <i>Quantification limit:</i> Al 50 µg/L Cu 5 µg/L Ba 50 µg/L B 50 µg/L Zn 2 µg/L Co 2 µg/L Sn 10 µg/L Mn 2 µg/L Ni 2 µg/L Se 2 µg/L V 0,5 µg/L	HRN EN ISO 11885:2010 (ISO 11885:2007; EN ISO 11885:2009)
79.	Hrana Food	Određivanje broja sulfitreducirajućih <i>Clostridium</i> spp. tehnikom brojenja <i>Determination of the number of sulfite-reducing Clostridium spp. by colony-count technique</i>	HRN EN ISO 15213-1:2023 (ISO 15213-1:2023; EN ISO 15213-1:2023)

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range	Metoda ispitivanja Test method
80.	Voda za ljudsku potrošnju, podzemne, površinske i otpadne vode Water for human consumption, ground water, surface water and waste water	Određivanje otopljenih klorita i klorata metodom ionske tekućinske kromatografije Determination of dissolved chlorite and chlorate by liquid chromatography	HRN EN ISO 10304-4:2022 (ISO 10304-4:2022; EN ISO 10304-4:2022)
81.		Granica kvantifikacije/Quantification limit: 10 µg/L	
82.		Određivanje sulfida Determination of sulfide	Vlastita metoda/ In-house method P-7.2.1-89, izd. 2, 2023-09-06
		Granica kvantifikacije/Quantification limit: 0,01 mg/L	
		Određivanje sulfita Determination of sulfite	Vlastita metoda/ In-house method P-7.2.1-90, izd. 2, 2023-09-06
		Granica kvantifikacije/Quantification limit: 0,010 mg/L	