



Potvrda o akreditaciji
Accreditation Certificate

1246

Norma
Standard

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

Akreditirano tijelo
Accredited body

**ZAVOD ZA JAVNO ZDRAVSTVO SVETI ROK VIROVITIČKO-
PODRAVSKE ŽUPANIJE**
Ulica Ljudevita Gaja 21, HR33000, Virovitica

Područje akreditacije
Scope of Accreditation

**Ispitivanje hrane, voda i kontrola mikrobiološke čistoće objekata u
proizvodnji hrane**
Uzorkovanje hrane, voda i okolišnih uzoraka u proizvodnji hrane
Testing of food, waters and control of microbiological cleanliness of facilities
in food production
Sampling of food, waters and environmental samples in food production

Akreditacija vrijedi do
Accreditation valid until

2030-07-13

Akreditacija vrijedi od
Accreditation valid from

2025-07-14

Prva akreditacija
Initial accreditation

2010-04-28

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

Ravnateljica
Director General
mr. sc. Mirela Zečević

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PODRUČJE AKREDITACIJE
SCOPE OF ACCREDITATIONIspitivanje voda / *Testing of waters*

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range	Metoda ispitivanja Test method
1.	Voda za ljudsku potrošnju Water for human consumption	Određivanje mutnoće Determination of turbidity (0,05 NTU - 400 NTU)	HRN EN ISO 7027-1:2016 (ISO 7027-1:2016; EN ISO 7027-1:2016)
2.	Otpadna voda Waste water	Određivanje suspendiranih tvari Determination of suspended Solids Granica kvantifikacije/ Quantification limit 2,0 mg/L	HRN EN 872:2008 (EN 872:2005)
3.	Voda za ljudsku potrošnju Water for human consumption	Određivanje permanganatnog indeksa Determination of permanganate index Granica kvantifikacije/ Quantification limit 0,5 mg O ₂ /L	HRN EN ISO 8467:2001 (ISO 8467:1993; EN ISO 8467:1995)
4.	Otpadna voda Waste water	Određivanje indeksa kemijske potrošnje kisika (KPK) Determination of the chemical oxygen demand index Granica kvantifikacije/ Quantification limit 3,00 mg O ₂ /L	HRN ISO 15705:2003 (ISO 15705:2002)
5.	Voda za ljudsku potrošnju Water for human consumption	Određivanje električne vodljivosti Determination of electrical conductivity (2,5 µS/cm - 1999 µS/cm)	HRN EN 27888:2008 (ISO 7888:1985; EN 27888:1993)
6.	Voda za ljudsku potrošnju, otpadna voda, površinska i podzemna voda, bazenska voda Water for human consumption, waste water, surface water and ground water, pool water	Određivanje pH vrijednosti Determination of pH value (pH 6 - pH 9)	HRN EN ISO 10523:2012 (ISO 10523:2008; EN ISO 10523:2012)
7.	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)
8.	Bazenska voda Pool water	Uzorkovanje Sampling	HRN EN ISO 19458:2008 (ISO 19458:2006, EN ISO 19458:2006)

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9.	Otpadne vode Waste waters	Uzorkovanje Sampling	HRN ISO 5667-10:2020 (ISO 5667-10:2020)
10.	Prirodna i umjetna jezera Natural and man-made lakes	Uzorkovanje Sampling	HRN ISO 5667-4:2016 (ISO 5667-4:2016) HRN EN ISO 19458:2008 (ISO 19458:2006, EN ISO 19458:2006)
11.	Rijeke i potoci Rivers and 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 EN ISO 19458:2008 (ISO 19458:2006, EN ISO 19458:2006)
12.	Podzemne vode Ground waters	Uzorkovanje Sampling	HRN ISO 5667-11:2011 (ISO 5667-11:2009) HRN EN ISO 19458:2008 (ISO 19458:2006, EN ISO 19458:2006)
13.	Površinske vode, voda za kupanje, podzemne vode Surface waters, bathing water, groundwaters	Detekcija i brojenje <i>Escherichia coli</i> , koliformnih bakterija i fekalnih koliformnih bakterija – Metoda membranske filtracije Detection and enumeration of <i>Escherichia coli</i> , coliform bacteria and fecal coliform bacteria – Membrane filtration method	Modificirana/Modified: 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)
14.	Voda za ljudsku potrošnju, voda za kupanje, površinska voda, bazenska voda Water for human consumption, bathing water, surface water, pool water	Detekcija i brojenje <i>Escherichia coli</i> i koliformnih bakterija – Metoda membranske filtracije Detection and enumeration of <i>Escherichia coli</i> and coliform bacteria – Membrane filtration method	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)
15.	Voda za ljudsku potrošnju, voda za kupanje, površinska voda Water for human consumption, bathing water, surface water	Detekcija i brojenje crijevnih enterokoka – Metoda membranske filtracije Detection and enumeration of intestinal enterococci – Membrane filtration method	HRN EN ISO 7899-2:2000 (ISO 7899-2:2000; EN ISO 7899-2:2000)

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16.	Voda za ljudsku potrošnju, bazenska voda Water for human consumption, pool water	Brojenje uzgojenih mikroorganizama – Broj kolonija naciepljivanjem na hranjivi agar Enumeration of culturable micro-organisms – Colony count by inoculation in a nutrient agar culture medium	HRN EN ISO 6222:2000 (ISO 6222:1999, EN ISO 6222:1999)
17.		Detekcija i brojenje <i>Pseudomonas aeruginosa</i> metodom membranske filtracije Detection and enumeration of <i>Pseudomonas aeruginosa</i> – Membrane filtration method	HRN EN ISO 16266:2008 (ISO 16266:2006; EN ISO 16266:2008)
18.	Voda za ljudsku potrošnju, podzemne i površinske vode Water for human consumption, ground and surface water	Detekcija i brojenje <i>Clostridium perfringens</i> (uključujući spore) – metoda membranske filtracije Detection and enumeration of <i>Clostridium perfringens</i> (including spores) – Membrane filtration method	HRN EN ISO 14189:2016 (ISO 14189:2013; EN ISO 14189:2016)

Ispitivanje hrane / Testing of food

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range	Metoda ispitivanja Test method
1.	Med Honey	Određivanje električne vodljivosti Determination of electrical conductivity (0 - 2 mS/cm)	Harmonised methods of the International Honey Commission 2009-Method 2

Ispitivanje hrane i okolišnih uzoraka u proizvodnji hrane /
Testing of food and environmental samples in food production

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range	Metoda ispitivanja Test method
1.	Gotova hrana i drugi gotovi proizvodi Ready meals and other processed food products	Uzorkovanje za mikrobiološku analizu Sampling for microbiological analysis	NMKL Procedura br. 12(2014) NMKL Procedure No. 12(2014)
2.	Okolišni uzorci u proizvodnji hrane Environmental samples in food production	Horizontalne metode za postupke uzorkovanja s površina Horizontal methods for surface sampling	HRN EN ISO 18593:2019 (ISO 18593:2018; EN ISO 18593:2018)

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3.	Hrana Food	Horizontalna metoda za brojanje mikroorganizama- Tehnika brojanja kolonija na 30 °C <i>Horizontal method for the enumeration of microorganisms-Colony count technique at 30 degrees C</i>	HRN EN ISO 4833-1:2013 (ISO 4833-1:2013; EN ISO 4833-1:2013) HRN EN ISO 4833-1:2013/A1:2022 (ISO 4833-1:2013/Amd 1:2022; EN ISO 4833-1:2013/A1:2022) HRN EN ISO 4833-2:2013 (ISO 4833-2:2013; EN ISO 4833-2:2013) HRN EN ISO 4833-2:2013 /Ispr.1:2014 (ISO 4833-2:2013/Cor1:2014; EN ISO 4833-2:2013/AC:2014) HRN EN ISO 4833-2:2013/A1:2022 (ISO 4833-2:2013/Amd 1:2022; EN ISO 4833-2:2013/A1:2022)
4.		Horizontalna metoda za dokazivanje prisutnosti i brojanje <i>Enterobacteriaceae</i> – Metoda određivanja broja kolonija <i>Horizontal method for the detection and enumeration of Enterobacteriaceae – Colony count method</i>	HRN EN ISO 21528-2:2017 (ISO 21528-2:2017; EN ISO21528-2:2017)
5.		Horizontalna metoda za dokazivanje prisutnosti i određivanje broja <i>Listeria monocytogenes</i> i drugih <i>Listeria</i> spp. – Metoda dokazivanja <i>Horizontal method for the detection and enumeration of Listeria monocytogenes and other Listeria spp. – Detection method</i>	HRN EN ISO 11290-1:2017 (ISO 11290-1:2017; EN ISO 11290-1:2017)
6.		Horizontalna metoda za dokazivanje prisutnosti i određivanje broja <i>Listeria monocytogenes</i> i drugih <i>Listeria</i> spp. – Metoda određivanja broja <i>Horizontal method for the detection and enumeration of Listeria monocytogenes and of Listeria spp. – Enumeration method</i>	HRN EN ISO 11290-2:2017 (ISO 11290-2:2017; EN ISO 11290-2:2017)

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range	Metoda ispitivanja Test method
7.	Hrana Food	Horizontalna metoda za dokazivanje prisutnosti, određivanje broja i serotipizaciju <i>Salmonella</i> – Dokazivanje prisutnosti <i>Salmonella</i> spp. <i>Horizontal method for the detection, enumeration and serotyping of Salmonella – 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.		Metoda brojanja beta-glukuronidaza pozitivne <i>Escherichia coli</i> – 2.dio: Brojanje kolonija pri 44 °C uporabom BCIG <i>Horizontal method for the enumeration of beta-glucuronidasa-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)
9.		Vodoravni postupak brojanja koagulaza-pozitivnih stafilokoka (<i>Staphylococcus aureus</i> i druge vrste) – 1. dio: Postupak primjene Baird-Parkerove hranjive podloge na agaru <i>Horizontal method for the enumeration of coagulasa-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) HRN EN ISO 6888-1:2021 /A1:2023 (ISO 6888-1:2021/ Amd 1:2023; EN ISO 6888-1:2021/ A1:2023)
10.		Metode za određivanje broja kvasaca i plijesni <i>Methods for the enumeration of yeasts and moulds</i>	HRN ISO 21527-1:2012 (ISO 21527-1:2008) HRN ISO 21527-2:2012 (ISO 21527-2:2008)

