



Potvrda o akreditaciji Accreditation Certificate

Ovime se utvrđuje da je
This is to recognize that

Hrvatski veterinarski institut
Savska cesta 143, 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, biološkog materijala, voda, veterinarsko-medicinskih pripravaka i kontrola mikrobiološke čistoće objekata u proizvodnji hrane
Dijagnostika bolesti životinja
Senzorsko ocjenjivanje proizvoda od mesa
Uzorkovanje voda, hrane, hrane za životinje i okolišnih uzoraka u proizvodnji hrane

Testing of food, animal feeding stuffs, biological material, waters, veterinary medical products and hygiene control in food production facilities
Diagnostics of animal diseases
Sensory analysis of meat products
Sampling of waters, food, animal feeding stuffs and environmental samples in food production

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.: 1150
Klasa/Ref.No.: 383-02/22-30/041
Urbroj/Id.No.: 569-02/12-23-97
Zagreb, 2023-05-14

Akreditacija istječe-Accreditation expiry: 2028-05-13
Prva akreditacija-Initial accreditation: 2008-05-15

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

Ravnateljica:
Director General:
mr. sc. Mirela Zečević



Hrvatska akreditacijska agencija
Croatian Accreditation Agency

PRILOG POTVRDI O AKREDITACIJI br: 1150

Annex to Accreditation Certificate Number:

Klasa/Ref. No.: 383-02/22-30/041

Urbroj/Id. No.: 569-02/4-26-20

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Zamjenjuje prilog/Replaces Annex:

Klasa/Ref. No.: 383-02/22-30/041

Urbroj/Id. No.: 569-02/4-25-3

Datum/Date: 2025-05-13

Norma: HRN EN ISO/IEC 17025:2017

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

Akreditacija istječe: 2028-05-13

Accreditation expiry:

Prva akreditacija: 2008-05-15

Initial accreditation:

Akreditirani laboratorij

Accredited Laboratory

Hrvatski veterinarski institut

Savska cesta 143, HR-10000 Zagreb

Područje akreditacije:

Scope of Accreditation:

Ispitivanje hrane, hrane za životinje, biološkog materijala, voda, veterinarsko-medicinskih pripravaka i kontrola mikrobiološke čistoće objekata u proizvodnji hrane

Dijagnostika bolesti životinja

Senzorsko ocjenjivanje proizvoda od mesa

Uzorkovanje voda, hrane, hrane za životinje i okolišnih uzoraka u proizvodnji hrane

Testing of food, animal feeding stuffs, biological material, waters, veterinary medical products and hygiene control in food production facilities

Diagnostics of animal diseases

Sensory analysis of meat products

Sampling of waters, food, animal feeding stuffs and environmental samples in food production

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

Ravnateljica:

Director General:

mr. sc Mirela Zečević

PODRUČJE AKREDITACIJE / SCOPE OF ACCREDITATION

**ODJEL ZA VETERINARSKO JAVNO ZDRAVSTVO
LABORATORIJ ZA MIKROBIOLOGIJU HRANE**

Savska cesta 143, HR-10000 Zagreb

Ispitivanje hrane i hrane za životinje, mikrobiološke čistoće objekata
Testing of food and animal feeding stuffs, microbiological cleanliness of facilities

Br. No.	Materijali/Proizvodi <i>Materials/Products</i>	Vrsta ispitivanja/Svojstvo <i>Type of test/Property</i> Raspon/Range	Metode ispitivanja <i>Test method</i>
1.	Hrana i hrana za životinje <i>Food and animal feeding stuffs</i>	Horizontalna metoda za dokazivanje prisutnosti, određivanje broja i serotipizaciju <i>Salmonella</i> -- 1. dio: Dokazivanje prisutnosti <i>Salmonella</i> spp. <i>Horizontal method for the detection, enumeration and serotyping of Salmonella -- Part 1: Detection of Salmonella spp.</i>	HRN EN ISO 6579-1:2017 <i>(ISO 6579-1:2017; EN ISO 6579-1:2017)</i> HRN EN ISO 6579-1:2017/A1:2020 <i>(ISO 6579-1:2017/Amd1:2020; EN ISO 6579-1:2017/A1:2020)</i>
2.	Bakterijski sojevi <i>Bacterial isolates</i>	Horizontalna metoda za dokazivanje, određivanje broja i serotipizaciju <i>Salmonella</i> – 3. dio: Smjernice za serotipizaciju <i>Salmonella</i> spp. <i>Horizontal method for the detection, enumeration and serotyping of Salmonella – Part 3: Guidelines for serotyping of Salmonella spp.</i>	HRI CEN ISO/TR 6579-3:2014 <i>(ISO/TR 6579-3:2014; CEN ISO/TR 6579-3:2014)</i>
3.	Hrana i hrana za životinje <i>Food and animal feeding stuffs</i>	Horizontalna metoda za dokazivanje prisutnosti i određivanje broja <i>Listeria monocytogenes</i> i drugih <i>Listeria</i> spp. -- 1. dio: Metoda dokazivanja prisutnosti <i>Horizontal method for the detection and enumeration of Listeria monocytogenes and other Listeria spp. -- Part 1: Detection method</i>	HRN EN ISO 11290-1:2017 <i>(ISO 11290-1:2017; EN ISO 11290-1:2017)</i>

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range	Metode ispitivanja Test method
4.	Hrana i hrana za životinje Food and animal feeding stuffs	Horizontalna metoda za dokazivanje prisutnosti i određivanje broja <i>Listeria monocytogenes</i> i drugih <i>Listeria</i> spp. -- 2. dio: Metoda određivanja broja <i>Horizontal 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)
5.		Horizontalna metoda za dokazivanje prisutnosti i određivanje broja <i>Campylobacter</i> spp. – 1. dio: Dokazivanje prisutnosti <i>Horizontal method for detection and enumeration of Campylobacter spp. – Part 1: Detection method</i>	HRN EN ISO 10272-1:2017 (ISO 10272-1:2017; EN ISO 10272-1:2017) HRN EN ISO 10272-1:2017/A1:2023 (ISO 10272-1:2017/Amd 1:2023 EN ISO 10272-1:2017/A1:2023)
6.		Horizontalna metoda za dokazivanje prisutnosti i određivanje broja <i>Campylobacter</i> spp. - 2. dio: Postupak određivanja broja kolonija <i>Horizontal method for detection and enumeration of Campylobacter spp. – Part 2: Colony-count technique</i>	HRN EN ISO 10272-2:2017 (ISO 10272-2:2017; EN ISO 10272-2:2017) HRN EN ISO 10272-2:2017/A1:2023 (ISO 10272-2:2017/Amd 1:2023 EN ISO 10272-2:2017/A1:2023)

Br. No.	Materijali/Proizvodi <i>Materials/Products</i>	Vrsta ispitivanja/Svojstvo <i>Type of test/Property</i> Raspon/Range	Metode ispitivanja <i>Test method</i>
7.	Hrana i hrana za životinje <i>Food and animal feeding stuffs</i>	Horizontalna metoda određivanja broja koagulaza pozitivnih stafilokoka (<i>Staphylococcus aureus</i> i ostale vrste) – 1. dio: Postupak primjene Baird-Parker agara <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 <i>(ISO 6888-1:2021; EN ISO 6888-1:2021)</i>
8.	Hrana i hrana za životinje <i>Food and animal feeding stuffs</i>	Horizontalna metoda za imunoenzimsko dokazivanje prisutnosti stafilokoknih enterotoksina u hrani <i>Horizontal method for the immunoenzymatic detection of staphylococcal enterotoxins in foodstuffs</i>	HRN EN ISO 19020:2017 <i>(ISO 19020:2017; EN ISO 19020:2017)</i>

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range	Metode ispitivanja Test method
9.	Hrana i hrana za životinje Food and animal feeding stuffs	Horizontalna metoda za određivanje broja mikroorganizama – Tehnike određivanja broja kolonija pri 30 °C Horizontal method for the enumeration of microorganisms -- Colony count techniques at 30 °C	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/Cor.1:2014; EN ISO 4833-2:2013/AC:2014) HRN EN ISO 4833-2:2013/A1:2022 (ISO 4833-1:2013/Amd 1:2022; EN ISO 4833-1:2013/A1:2022)
10.	Hrana i hrana za životinje Food and animal feeding stuffs	Metoda brojenja beta-glukuronidaza pozitivne <i>Escherichia coli</i> – 2. dio: Brojenje kolonija pri 44 °C uporabom 5-bromo-4-chloro-3-indolyl beta-D-glukuronide Horizontal method for the enumeration of beta-glukuronidase-positive <i>Escherichia coli</i> - Part 2: Colony-count technique at 44 °C using 5-bromo-4-chloro-3-indolyl beta-D-glukuronide	HRN ISO 16649-2:2001 (ISO 16649-2:2001)

Br. No.	Materijali/Proizvodi <i>Materials/Products</i>	Vrsta ispitivanja/Svojstvo <i>Type of test/Property</i> Raspon/Range	Metode ispitivanja <i>Test method</i>
11.	Hrana i hrana za životinje <i>Food and animal feeding stuffs</i>	Horizontalna metoda za brojenje beta-glukuronidaza-pozitivne <i>Escherichia coli</i> – 3. dio: Tehnika za dokazivanje prisutnosti i određivanje najvjerojatnijeg broja bakterija pomoću 5-brom-4-klor-3-indolil-beta-D-glukuronida <i>Horizontal method for the enumeration of beta-glucuronidase-positive Escherichia coli -- Part 3: Detection and most probable number technique using 5-bromo-4-chloro-3-indolyl-β-D-glucuronide</i>	HRN EN ISO 16649-3:2015 <i>(ISO 16649-3:2015, corrected version 2016-12-15; EN ISO 16649-3:2015)</i>
12.		Horizontalna metoda za dokazivanje prisutnosti i određivanje broja <i>Enterobacteriaceae</i> – 2. dio: Postupak određivanja broja kolonija <i>Horizontal method for the detection and enumeration of Enterobacteriaceae – Part 2: Colony-count technique</i>	HRN EN ISO 21528-2:2017 <i>(ISO 21528-2:2017; EN ISO 21528-2:2017)</i>
13.	Hrana <i>Food</i>	Horizontalna metoda za dokazivanje i određivanje broja <i>Clostridium</i> spp. – 1.dio: Određivanje broja sulfitreducirajućih <i>Clostridium</i> spp. tehnikom brojenja kolonija <i>Horizontal method for the detection and enumeration of Clostridium spp. – Part 1: Enumeration of sulfite-reducing Clostridium spp. by colony count technique</i>	HRN EN ISO 15213-1:2023 <i>(ISO 15213-1:2023; EN ISO 15213-1:2023)</i>
14.	Hrana <i>Food</i>	Određivanje aktiviteta vode <i>Determination of water activity</i>	HRN ISO 18787:2020 <i>(ISO 18787:2017)</i>

ODJEL ZA VETERINARSKO JAVNO ZDRAVSTVO
LABORATORIJ ZA ODREĐIVANJE REZIDUA
Savska cesta 143, HR-10000 Zagreb

**Ispitivanje ostataka zabranjenih tvari, farmakološki djelatnih tvari
i kontaminanata u hrani životinjskog podrijetla, medu, hrani za životinje i biološkim
tekućinama**

*Analysis of banned substances, pharmacologically active substances
and contaminants in food of animal origin, honey, animal feeding stuffs and
biological fluids*

FLEKSIBILNO PODRUČJE AKREDITACIJE / FLEXIBLE SCOPE OF ACCREDITATION

Red. Br./ No	Oznaka/ Identification	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property	Tehnika/ Technique	Metoda ispitivanja/ Test method
<p>I – Hrana II – Hrana za životinje III – Biološki materijal IV - Voda</p> <p>Zabranjene tvari (A) Kloramfenikol (A1): UHPLC-MS/MS (A1-1), ELISA (A1-2); Nitrofurani (A2) Farmakološki djelatne tvari (B) Farmakološki djelatne tvari (B1): UHPLC-TOF/MS (B1-1), UHPLC-MS/MS (B1-2), ELISA (B1-3), Mikrobiološki test (B1-4); Aminoglikozidi (B2), Antiparazitici (B3), Kokcidiostatici (B4), Nesteroidni protuupalni lijekovi (B5), Polipeptidni lijekovi (B6), Sedativi (B7), Karbadoks i olakvindoks (B8) Kontaminanti (C) Pesticidi, piretroidi, karbamati i poliklorirani bifenili (C1): LC-MS/MS (C1-1), GC-MS/MS (C1-2) Kemijski elementi (C2): Živa (C2-1), Metali (C2-2), Anorganski arsen (C2-3) Mikotoksini (C3): Aflatoksin M1 (C3): UHPLC-MS/MS (C3-1), ELISA (C3-2); Melamin i cijanurna kiselina (C4); Per- i polifluoralkilne tvari (C5) Kvaliteta (E) Vrsta proteina (E1)</p> <p>I – Food II – Animal feedstuff III – Biological material IV - Water</p> <p>Banned substances (A) Chloramphenicol (A1): UHPLC-MS/MS (A1-1), ELISA (A1-2); Nitrofurans (A2) Pharmacologically active substances (B) Pharmacologically active substances (B1: UHPLC-TOF/MS (B1-1), UHPLC-MS/MS (B1-2), ELISA (B1-3), Microbiological test (B1-4); Aminoglicozides (B2), Antiparazitcs (B3), Coccidiostats (B4), Nonsteroidal anti-inflammatory drugs (B5), Polypeptide drugs (B6), Sedatives (B7), Carbadox and olaquinox (B8) Contaminants (C) Pesticides, pyrethroids, carbamates and polychlorinated biphenyls (C1): LC-MS/MS (C1-1), GC-MS/MS (C1-2) Chemical elements (C2): Mercury (C2-1), Metals (C2-2), Inorganic arsenic (C2-3) Micotoxins (C3): Aflatoxin M1 (C3): UHPLC-MS/MS (C3-1), ELISA (C3-2); Melamin and cyanuric acid (C4) Per- and polyfluoralkyl substances (C5) Quality (E) Protein type (E1)</p>					

Red. Br./ No	Oznaka/ Identification	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property	Tehnika/ Technique	Metoda ispitivanja/ Test method
Zabranjene tvari (A) Kloramfenikol (A1), Nitrofurani (A2) Banned substances (A) Chloramphenicol (A1), Nitrofurans (A2)					
1.	I III IV A1-1	Hrana životinjskog podrijetla Med Voda Biološki materijal Food of animal origin Honey Water Biological material	Određivanje kloramfenikola <i>Determination of chloramphenicol</i>	UHPLC-MS/MS	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>
2.	I A1-2	Hrana životinjskog podrijetla Food of animal origin	Određivanje kloramfenikola <i>Determination of chloramphenicol</i>	ELISA	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>
3.	I A2	Hrana životinjskog podrijetla i med Food of animal origin and honey	Određivanje nitrofurana <i>Determination of nitrofurans</i>	UHPLC-MS/MS	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>

Red. Br./ No	Oznaka/ Identification	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property	Tehnika/ Technique	Metoda ispitivanja/ Test method
<p>Farmakološki djelatne tvari (B) Farmakološki djelatne tvari (B1): UHPLC-TOF/MS (B1-1), UHPLC-MS/MS (B1-2), ELISA (B1-3), Mikrobiološki test (B1-4); Aminoglikozidi (B2), Antiparazitici (B3), Kokcidiostatici (B4), Nesteroidni protuupalni lijekovi (B5), Polipeptidni lijekovi (B6), Sedativi (B7), Karbadoks i olakvindoks (B8)</p> <p>Pharmacologically active substances (B) Pharmacologically active substances (B1): UHPLC-TOF/MS (B1-1), UHPLC-MS/MS (B1-2), ELISA (B1-3), Microbiological test (B1-4); Aminoglicozides (B2), Antiparazitcs (B3), Coccidiostats (B4), Nonsteroidal anti-inflammatory drugs (B5), Polypeptide drugs (B6), Sedatives (B7), Carbadox and olaquindox (B8)</p>					
4.	I B1 - 1	Hrana životinjskog podrijetla <i>Food of animal origin</i>	Određivanje veterinarskih lijekova <i>Determination of veterinary drugs</i>	UHPLC-TOF-MS	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>
5.	I II B1 - 2	Hrana životinjskog podrijetla i med Hrana za životinje <i>Food of animal origin and honey</i> <i>Animal feeding stuff</i>	Određivanje veterinarskih lijekova <i>Determination of veterinary drugs</i>	UHPLC-MS/MS	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>
6.	I B1-3	Hrana životinjskog podrijetla <i>Food of animal origin</i>	Određivanje veterinarskih lijekova <i>Determination of veterinary drugs</i>	ELISA	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>

Red. Br./ No	Oznaka/ Identification	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property	Tehnika/ Technique	Metoda ispitivanja/ Test method
7.	I B1-4	Hrana životinjskog podrijetla i med <i>Food of animal origin and honey</i>	Određivanje veterinarskih lijekova <i>Determination of veterinary drugs</i>	Mikrobiološki test	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>
8.	I B2	Hrana životinjskog podrijetla i med <i>Food of animal origin and honey</i>	Određivanje aminoglikozida <i>Determination of aminoglycosides</i>	UHPLC-MS/MS	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>
9.	I B3	Hrana životinjskog podrijetla <i>Food of animal origin</i>	Određivanje antiparazitika <i>Determination of antiparasitics</i>	UHPLC-MS/MS	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>
10.	I II B4	Hrana životinjskog podrijetla Hrana za životinje <i>Food of animal origin Animal feeding stuffs</i>	Određivanje kokcidiostatika <i>Determination of coccidiostats</i>	UHPLC-MS/MS	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>
11.	I B5	Hrana životinjskog podrijetla <i>Food of animal origin</i>	Određivanje nesteroidnih protuupalnih lijekova <i>Determination of nonsteroidal anti-inflammatory drugs</i>	UHPLC-MS/MS	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>

Red. Br./ No	Oznaka/ Identification	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property	Tehnika/ Technique	Metoda ispitivanja/ Test method
12.	I B6	Hrana životinjskog podrijetla <i>Food of animal origin</i>	Određivanje polipeptidnih lijekova <i>Determination of polypeptide drugs</i>	UHPLC-MS/MS	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>
13.	I B7	Hrana životinjskog podrijetla <i>Food of animal origin</i>	Određivanje sedativa <i>Determination of sedatives</i>	UHPLC-MS/MS	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>
14.	I B8	Hrana životinjskog podrijetla <i>Food of animal origin</i>	Određivanje karbadoksa i olakvindoksa <i>Determination of carbadox and olaquinox</i>	UHPLC-MS/MS	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>
Kontaminanti (C) Pesticidi, piretroidi, karbamati i poliklorirani bifenili (C1): LC-MS/MS (C1-1), GC-MS/MS (C1-2) <i>Contaminants (C) Pesticides, pyrethroids, carbamates and polychlorinated biphenyls (C1): LC-MS/MS (C1-1), GC-MS/MS (C1-2)</i>					
15.	I C1-1	Hrana životinjskog podrijetla i med <i>Food of animal origin and honey</i>	Određivanje pesticida, piretroida, karbamata i polikloriranih bifenila <i>Determination of pesticides, pyrethroids, carbamates and polychlorinated biphenyls</i>	LC-MS/MS	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>

Red. Br./ No	Oznaka/ Identification	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property	Tehnika/ Technique	Metoda ispitivanja/ Test method
16.	I II C1-2	Hrana životinjskog podrijetla i med Hrana za životinje <i>Food of animal origin and honey</i> Animal feeding stuffs	Određivanje pesticida, piretroida, karbamata i polikloriranih bifenila <i>Determination of pesticides, pyrethroids, carbamates and polychlorinated biphenyls</i>	GC-MS/MS	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>
Kontaminanti (C) Kemijski elementi (C2): Živa (C2-1), Metali (C2-2), Anorganski arsen (C2-3) <i>Contaminants (C) Chemical elements (C2): Mercury (C2-1), Metals (C2-2), Inorganic arsenic (C2-3)</i>					
17.	I II C2-1	Hrana životinjskog podrijetla i med Hrana za životinje <i>Food of animal origin and honey</i> Animal feeding stuffs	Određivanje žive <i>Determination of metals</i>	AAS Amalgamiranje	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>
18.	I II C2-2	Hrana životinjskog podrijetla i med Hrana za životinje <i>Food of animal origin and honey</i> Animal feeding stuffs	Određivanje metala <i>Determination of metals</i>	ICP-MS	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>
19.	I II C2-3	Hrana životinjskog podrijetla Hrana za životinje <i>Food of animal origin</i> Animal feeding stuffs	Određivanje anorganskog arsena <i>Determination of inorganic arsenic</i>	LC-ICP-MS	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>

Red. Br./ No	Oznaka/ Identification	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property	Tehnika/ Technique	Metoda ispitivanja/ Test method
Kontaminanti (C) Mikotoksini (C3): Aflatoksin M1 (C3): UHPLC-MS/MS (C3-1), ELISA (C3-2) Contaminants (C) Micotoxins (C3): Aflatoxin M1 (C3): UHPLC-MS/MS (C3-1), ELISA (C3-2)					
20.	I C3-1	Hrana životinjskog podrijetla <i>Food of animal origin</i>	Određivanje aflatoksina M1 <i>Determination of aflatoxin M1</i>	UHPLC-MS/MS	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>
21.	I C3-2	Hrana životinjskog podrijetla <i>Food of animal origin</i>	Određivanje aflatoksina M1 <i>Determination of aflatoxin M1</i>	ELISA	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>
Kontaminanti (C) Melamin i cijanurna kiselina (C4) Contaminants (C) Melamin and cyanuric acid(C4)					
22.	I II C4	Hrana životinjskog podrijetla <i>Food of animal origin</i> Hrana za životinje <i>Animal feeding stuffs</i>	Određivanje melamina i cijanurne kiseline <i>Determination of melamin and cyanuric acid</i>	UHPLC-MS/MS	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>
Kontaminanti (C) Per- i polifluoralkilne tvari (C5) Contaminants (C) Per- and polyfluoroalkyl substances (C5)					

Red. Br./ No	Oznaka/ Identification	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property	Tehnika/ Technique	Metoda ispitivanja/ Test method
23.	IC5	Hrana životinjskog podrijetla <i>Food of animal origin</i>	Određivanje per- i polifluoralkilnih tvari <i>Determination of per- and polyfluoroalkyl substances</i>	UHPLC-MS/MS	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>
Kvaliteta (E) Vrsta proteina (E1) <i>Quality (E) Protein type (E1)</i>					
24.	IE1	Hrana i hrana životinjskog podrijetla <i>Food and food of animal origin</i>	Određivanje vrste proteina <i>Determination of protein type</i>	ELISA	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>

Napomene / Notes:

- LC-MS/MS: tekućinska kromatografija i višestruka spektrometrija masa (*engl. Liquid chromatography–tandem mass spectrometry, LC-MS/MS*)
- UHPLC-TOF-MS: tekućinska kromatografija ultravisoke djelotvornosti sa spektrometrijom masa vremena leta i višestrukom spektrometrijom masa (*engl. Ultra high performance liquid chromatography with time of flight mass spectrometry and tandem mass spectrometry, UHPLC-TOF-MS*)
- UHPLC-MS/MS: tekućinska kromatografija ultravisoke djelotvornosti i višestruka spektrometrija masa (*engl. Ultra high performance liquid chromatography–tandem mass spectrometry, UHPLC-MS/MS*)
- GC-MS/MS: plinska kromatografija i višestruka spektrometrija masa (*engl. Gas chromatography–tandem mass spectrometry, GC-MS/MS*)
- ICP-MS: induktivno spregnuta plazma i spektrometrija masa (*engl. Inductively coupled plasma-mass spectroscopy, ICP-MS*)
- LC-ICP-MS: tekućinska kromatografija sa induktivno spregnutom plazmom i spektrometrijom masa (*engl. Liquid chromatography with inductively coupled plasma and mass spectroscopy, LC-ICP-MS*)

- AAS: atomska apsorpciona spektrometrija (*engl. Atomic absorption spectrometry, AAS*)
- ELISA: imunoenzimatska tehnika (*engl. Enzyme-linked immunosorbent assay*)
- Mikrobiološki test (*engl. Microbiological test*)

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.veinst.hr

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

ODJEL ZA VETERINARSKO JAVNO ZDRAVSTVO
LABORATORIJ ZA MIKROBIOLOGIJU HRANE ZA ŽIVOTINJE
Savska cesta 143, HR-10000 Zagreb

Ispitivanje hrane za životinje
Testing of animal feeding stuffs

Br. No.	Materijali/Proizvodi <i>Materials/Products</i>	Vrsta ispitivanja/Svojstvo <i>Type of test/Property</i> Raspon/Range	Metode ispitivanja <i>Test method</i>
1.	Hrana za životinje <i>Animal feeding stuffs</i>	Horizontalna metoda za dokazivanje prisutnosti, određivanje broja i serotipizaciju <i>Salmonella</i> -- 1. dio: Dokazivanje prisutnosti <i>Salmonella</i> spp. <i>Horizontal method for the detection, enumeration and serotyping of Salmonella -- Part 1: Detection of Salmonella spp.</i>	HRN EN ISO 6579-1:2017 <i>(ISO 6579-1:2017; EN ISO 6579-1:2017)</i> HRN EN ISO 6579-1:2017/A1:2020 <i>(ISO 6579-1:2017/Amd1:2020; EN ISO 6579-1:2017/A1:2020)</i>
2.		Horizontalna metoda za brojenje kvasca i plijesni – 2. dio: Tehnika brojenja kolonija u proizvodima s aktivitetom vode manjim ili jednakim 0,95 <i>Horizontal method for the enumeration of yeasts and moulds -- Part 2: Colony count technique in products with water activity less than or equal to 0,95</i>	HRN ISO 21527-2:2012 <i>(ISO 21527-2:2008)</i>
3.		Mikroskopska metoda za determinaciju dijelova animalnih tkiva u krmivima i krmnim smjesama <i>Microscopic method for determination parts of animal tissues in feed materials and compound feed</i>	SOP Z-I-3/13-1 Rev 04 2014-07-13 <i>(Regulation (EC) 152/2009)</i> ANNEX VI

ODJEL ZA VETERINARSKO JAVNO ZDRAVSTVO
LABORATORIJ ZA ANALITIČKU KEMIJU
Savska cesta 143, HR-10000 Zagreb

Kontrola ostataka tvari s anaboličkim učinkom
Residue control of substances with anabolic effect
Određivanje kemijskih parametara u hrani i hrani za životinje
Determination of chemical parameters in food and animal feeding stuffs
Određivanje mikotoksina u hrani i hrani za životinje
Determination of mycotoxins in food and animal feeding stuffs
Određivanje alergena u hrani
Determination of allergens in food
Određivanje aditiva u hrani
Determination of additives in food

Br. No.	Materijali/Proizvodi <i>Materials/Products</i>	Vrsta ispitivanja/Svojstvo <i>Type of test/Property</i> Raspon/Range	Metoda ispitivanja <i>Test method</i>
1.		Određivanje vode i udjela drugih hlapljivih tvari <i>Determination of moisture and other volatile matter content</i>	HRN ISO 6496:2001 <i>(ISO 6496:1999)</i>
2.	Hrana za životinje <i>Animal feeding stuffs</i>	Određivanje količine sirovih bjelancevina <i>Determination of crude protein content</i>	HRN EN ISO 5983-1:2008 <i>(ISO 5983-1:2005; EN ISO 5983-1:2005)</i> HRN EN ISO 5983-1:2008/Ispr.1:2011 <i>(ISO 5983-1:2005/Cor.1:2008; EN ISO 5983-1:2005/AC:2009)</i> HRN EN ISO 5983-2:2010 <i>(ISO 5983-2:2009; EN ISO 5983-1:2009)</i>
3.		Određivanje udjela masti <i>Determination of fat content</i>	HRN ISO 6492:2001 <i>(ISO 6492:1999)</i>
4.		Određivanje pepela <i>Determination of crude ash</i>	HRN ISO 5984:2023 <i>(ISO 5984:2022)</i>
5.	Hrana i hrana za životinje <i>Food and animal feeding stuffs</i>	Određivanje aflatoksina B1 ELISA metodom <i>Determination of aflatoxin B1 by ELISA method</i>	SOP Z-I-4-K 19 Rev 07 2018-02-16

Br. No.	Materijali/Proizvodi <i>Materials/Products</i>	Vrsta ispitivanja/Svojstvo <i>Type of test/Property</i> Raspon/Range	Metoda ispitivanja <i>Test method</i>
6.	Hrana i hrana za životinje <i>Food and animal feeding stuffs</i>	Određivanje šećera enzimatskom metodom <i>Determination of sugars by enzymatic method</i>	SOP Z-I-4- N 21 Rev 06 2024-04-23
7.		Određivanje masnih kiselina plinskom kromatografijom sa FID detekcijom <i>Determination of fatty acids by gas chromatography with FID detector</i>	HRN EN ISO 12966-4:2015 <i>(ISO 12966-4:2015; EN ISO 12966-4:2015)</i> HRN EN ISO 12966-2:2017 <i>(ISO 12966-2:2017; EN ISO 12966-2:2017)</i>
8	Hrana životinjskog podrijetla <i>Food of animal origin</i>	Određivanje udjela vode <i>Determination of moisture content</i>	HRN ISO 1442:2024 SOP Z-I-4-N 01 Rev 10 2025-09-01
9.		Određivanje količine sirovih bjelančevina <i>Determination of crude protein content</i>	HRN ISO 937:1999 <i>(ISO 937:1978)</i> SOP Z-I-4-N 03 Rev 07 2021-11-29
10.	Hrana životinjskog podrijetla <i>Food of animal origin</i>	Određivanje ukupne količine masti <i>Determination of total fat content</i>	HRN ISO 1443:1999 <i>(ISO 1443:1973)</i> SOP Z-I-4-N 02 Rev 09 2021-11-30

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range	Metoda ispitivanja Test method
11.	Meso i mesni proizvodi Meat and meat products	Određivanje količine hidroksiprolina i kolagena <i>Determination of hydroxyproline and collagene content</i>	HRN ISO 3496:1999 <i>(ISO 3496:1994)</i> Z-I-4-N 06 Rev 07 2021-07-14
12.		Određivanje količine nitrita <i>Determination of nitrite content</i>	HRN EN 12014-3:2007 <i>(EN 12014-3:2005)</i>
13.	Hrana životinjskog podrijetla <i>Food of animal origin</i>	Određivanje količine ukupnog fosfora <i>Determination of total phosphorus content</i>	HRN ISO 23776:2022 <i>(ISO 23776:2021)</i> SOP Z-I-4-N 05 Rev 09 2023-03-27
14.		Određivanje nitrata enzimatskom metodom <i>Determination of nitrate by enzymatic method</i>	SOP Z-I-4- N 20 Rev 06 2023-06-07
15.	Tkivo jetre <i>Liver tissue</i> Tkivo mišića <i>Muscle tissue</i>	Određivanje trenbolona u biološkom materijalu ELISA metodom <i>Determination of trenbolone in biological material by ELISA method</i>	SOP Z-I-4-MA 15 Rev 05 2023-08-10
16.	Tkivo mišića <i>Muscle tissue</i>	Određivanje metiltestosterona u biološkom materijalu ELISA metodom <i>Determination of methyltestosterone in biological material by ELISA method</i>	SOP Z-I-4-MA 10 Rev 07 2023-09-26
17.	Tkivo jetre <i>Liver tissue</i> Urin <i>Urine</i>	Određivanje etinilestradiola u biološkom materijalu ELISA metodom <i>Determination of ethinylestradiol in biological material by ELISA method</i>	SOP Z-I-4-MA 18 Rev 04 2023-10-10
18.	Hrana <i>Food</i>	Određivanje glutena ELISA metodom <i>Determination of gluten by ELISA method</i>	SOP Z-I-4-N 15 Rev 02 2019-05-23
19.		Određivanje mliječnih proteina ELISA metodom <i>Determination of milk proteins by ELISA method</i>	SOP Z-I-4-N 14 Rev 02 2019-05-23
20.	Hrana <i>Food</i>	Određivanje proteina soje ELISA metodom <i>Determination of soya proteins by ELISA method</i>	SOP Z-I-4-N 17 Rev 03 2019-06-27

Br. No.	Materijali/Proizvodi <i>Materials/Products</i>	Vrsta ispitivanja/Svojstvo <i>Type of test/Property</i> Raspon/Range	Metoda ispitivanja <i>Test method</i>
21.	Meso i mesni proizvodi <i>Meat and meat products</i>	Određivanje glutaminske kiseline enzimatskom metodom u hrani životinjskog podrijetla <i>Determination of glutamic acid by enzymatic method in food of animal origin</i>	SOP Z-I-4-N 30 Rev 02 2024-05-06
22.	Meso i mesni proizvodi <i>Meat and meat products</i>	Određivanje askorbinske i izoaskorbinske kiseline UHPLC metodom <i>Determination of ascorbic and isoascorbic acid by UHPLC method</i>	SOP Z-I-4-N 26 Rev 02 2023-11-24
23.	Hrana životinjskog podrijetla <i>Food of animal origin</i>	Određivanje sorbinske kiseline HPLC metodom u hrani životinjskog podrijetla <i>Determination of sorbic acid by HPLC method in food of animal origin</i>	HRN ISO 9231:2009 SOP Z-I-4-N 31 Rev 02 2023-03-23
24.	Žitarice i proizvodi od žitarica <i>Cereals and cereals products</i>	Određivanje ergot alkaloida ELISA metodom u hrani i hrani za životinje <i>Determination of ergot alkaloids by ELISA method in food and animal feeding stuffs</i>	SOP Z-I-4-K 30 Rev 03 2023-06-15
25.	Hrana životinjskog podrijetla <i>Food of animal origin</i>	Određivanje nitrata i nitrita HPLC metodom <i>Determination of nitrate and nitrite by HPLC method</i>	SOP Z-I-4-N 34 Rev 00 2025-06-03

FLEKSIBILNO PODRUČJE AKREDITACIJE / FLEXIBLE SCOPE OF ACCREDITATION

Red. Br./ No	Oznaka/ Identification	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property	Tehnika/ Technique	Metoda ispitivanja/ Test method
			I – Hrana II – Hrana za životinje III – Biološki materijal IV - Voda		
			Zabranjene tvari (A) Beta-agonisti (A1), Steroidi (A2), Stilbeni i laktoni rezorcilne kiseline (A3), Tireostatici (A4), Gestageni (A5) Kontaminanti (C) Mikotoksini Kvaliteta (E) - Minerali		
			I – Food II – Feedstuff III – Biological material IV - Water		
			Banned substances (A) Beta-agonists (A1), Steroids (A2), Stilbens and resorcylic acid lactones (A3), Thyreostats (A4), Gestagens (A5) Contaminants (C) Mycotoxins Quality (E) - Minerals		
			Zabranjene tvari (A) Kvaliteta (E) Kontaminanti (C) Banned substances (A) Quality (E) Contaminants (C)		

1.	I II III IV A1	Hrana Hrana za životinje Biološki materijal Voda <i>Food</i> <i>Feedstuff</i> <i>Biological material</i> <i>Water</i>	Određivanje beta-agonista <i>Determination of beta-agonists</i>	LC-MS/MS	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>
2.	III A2	Biološki materijal <i>Biological material</i>	Određivanje steroida <i>Determination of steroids</i>	LC-MS/MS	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>
3.	III A3	Biološki materijal <i>Biological material</i>	Određivanje stilbena i laktona rezorcilne kiseline <i>Determination of stilbens and resorcylic acid lactones</i>	LC-MS/MS	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>
4.	III A4	Biološki materijal <i>Biological material</i>	Određivanje tireostatika <i>Determination of thyreostats</i>	LC-MS/MS	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>
5.	III A5	Biološki materijal <i>Biological material</i>	Određivanje gestagena <i>Determination of gestagens</i>	LC-MS/MS	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>

6.	I II E	Hrana Hrana za životinje <i>Food</i> <i>Feed</i>	Određivanje minerala <i>Determination of minerals</i>	AAS	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>
7.	I II C	Hrana Hrana za životinje	Određivanje mikotoksina <i>Determination of mycotoxins</i>	LC-MS/MS	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>

Napomene / Notes:

- LC-MS/MS: tekućinska kromatografija i višestruka spektrometrija masa (*engl. Liquid chromatography–tandem mass spectrometry, LC-MS/MS*)
- AAS: atomska apsorpcijska spektroskopija (*engl. Atomic absorption spectroscopy*)

Fleksibilnim područjem akreditacije dopušta se laboratoriju primjena metoda ispitivanja na materijale/proizvode, vrstu ispitivanja/svojtvo i raspone unutar područja, u skladu s dokumentiranim i odobrenim postupcima laboratorija.

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

ODJEL ZA VETERINARSKO JAVNO ZDRAVSTVO
LABORATORIJ ZA ANALIZU
VETERINARSKO-MEDICINSKIH PRIPRAVAKA
Savska cesta 143, HR-10000 Zagreb

Provjera kakvoće veterinarskih lijekova
Quality control of veterinary medicinal products

Br. No.	Materijali/Proizvodi <i>Materials/Products</i>	Vrsta ispitivanja/Svojstvo <i>Type of test/Property</i> Raspon/Range	Metoda ispitivanja <i>Test method</i>
1.	Veterinarski lijekovi <i>Veterinary medicinal products</i>	Određivanje enrofloksacina (UV/VIS spektrofotometrijskom metodom) <i>Determination of enrofloxacin (UV/VIS spectroscopy)</i> Raspon od 40,0% do 160,0% nominalne koncentracije (5,0 mg L ⁻¹) <i>Range from 40,0% to 160,0% nominal concentration (5,0 mg L⁻¹)</i>	SOP Z-I-5-21 Rev 10 2024-04-23
2.		Određivanje benzilnog alkohola (GC/FID) <i>Determination of benzyl alcohol (GC/FID)</i> Raspon od 40,0% do 160,0% nominalne koncentracije (1,0 mg mL ⁻¹) <i>Range from 40,0% to 160,0% nominal concentration (1,0 mg mL⁻¹)</i>	SOP Z-I-5-13 Rev 10 2024-04-15
3.		Određivanje amoksicilina (HPLC) <i>Determination of amoxicillin (HPLC)</i> Raspon od 33,3% do 166,7% nominalne koncentracije (0,3 mg mL ⁻¹) <i>Range from 33,3% to 166,7% nominal concentration (0,3 mg mL⁻¹)</i>	SOP Z-I-5-03 Rev 11 2024-04-23

ODJEL ZA BAKTERIOLOGIJU I PARAZITOLOGIJU
LABORATORIJ ZA OPĆU BAKTERIOLOGIJU I MIKOLOGIJU
Savska cesta 143, HR-10000 Zagreb

Izdvajanje gibljivih bakterija roda *Salmonella* iz dijagnostičkog materijala
Isolation of motile members of genus Salmonella from diagnostic materials
Izdvajanje *Campylobacter* spp. iz dijagnostičkog materijala
Isolation of Campylobacter spp. from diagnostic materials
Određivanje osjetljivosti bakterija prema antimikrobnim lijekovima
Antimicrobial susceptibility testing
Serološka tipizacija *Salmonella* spp.
Serotyping of Salmonella spp.

Br. No.	Materijali/Proizvodi <i>Materials/Products</i>	Vrsta ispitivanja/Svojstvo <i>Type of test/Property</i> Raspon/Range	Metoda ispitivanja <i>Test method</i>
1.	Organi i feces životinja <i>Animal organs and faeces</i>	Izdvajanje i identifikacija gibljivih <i>Salmonella</i> spp. <i>Isolation and identification (to O-group) of motile Salmonella spp.</i> Horizontalna metoda za dokazivanje prisutnosti <i>Salmonella</i> spp. <i>Horizontal method for the detection of Salmonella spp.</i>	HRN EN ISO 6579-1:2017 <i>(ISO 6579-1:2017; EN ISO 6579-1:2017)</i> HRN EN ISO 6579-1:2017/A1:2020 <i>(ISO 6579-1:2017/Amd1:2020; EN ISO 6579-1:2017/A1:2020)</i>
2.	Bakterijski sojevi <i>Bacterial strain</i>	Horizontalna metoda za dokazivanje prisutnosti, brojenje i serotipizaciju <i>Salmonella</i> – Dio 3. Smjernice za serotipizaciju <i>Salmonella</i> spp. <i>Horizontal method for the detection, enumeration and serotyping of Salmonella – Part 3 Guidelines for serotyping of Salmonella spp.</i>	HRI CEN ISO/TR 6579-3:2014 <i>(ISO/TR 6579-3:2014; CEN ISO/TR 6579-3:2014)</i>
3.	Izolati bakterija <i>Isolates of bacteria</i>	Određivanje minimalnih inhibicijskih koncentracija bakterija mikrodilucijskom metodom <i>Detection of minimal inhibitory concentrations of bacteria by microdilution method</i>	SOP Z-II-2-35 Rev 07 2020-02-21

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range	Metoda ispitivanja Test method
4.	Organi i feces životinja <i>Animal organs and faeces</i>	Horizontalna metoda za dokazivanje prisutnosti i brojenje <i>Campylobacter</i> spp. – Dio 1.: Metoda dokazivanja <i>Horizontal method for detection of Campylobacter spp. – Part 1: Detection method</i>	HRN EN ISO 10272-1:2017 <i>(ISO 10272-1:2017; EN ISO 10272-1:2017)</i> HRN EN ISO 10272-1:2017/A1:2023 <i>(ISO 10272-1:2017/Amd 1:2023 EN ISO 10272-1:2017/A1:2023)</i>
5.	Sadržaj cekuma i meso životinja <i>Animal caecal samples and meat</i>	Izdvajanje i identifikacija <i>E. coli</i> koja proizvodi ESBL i/ili AmpC i/ili karbapenemaze <i>Isolation and identification of E. coli which produced ESBL and/or AmpC and / or carbapenemases</i>	EURL AR Laboratory protocol: Isolation of ESBL, AmpC and carbapenemase producing <i>E. coli</i> from fresh meat; EURL AR Laboratory protocol: Isolation of ESBL, AmpC and carbapenemase producing <i>E. coli</i> from caecal samples
6.	Uzorci životinja koje služe za hranu i okoliša farme <i>Food-Producing Animals and Farm Environment</i>	Izdvajanje meticilin rezistentnih sojeva <i>Staphylococcus aureus</i> (MRSA) iz uzoraka životinja koje služe za hranu i okoliša na farmama <i>Isolation of Methicilin-Resistant Staphylococcus aureus (MRSA) from Food-Producing Animals and Farm Environment</i>	EURL-AR Laboratory protocol: Isolation of Methicilin-Resistant <i>Staphylococcus aureus</i> (MRSA) from Food-Producing Animals and Farm Environment

ODJEL ZA BAKTERIOLOGIJU I PARAZITOLOGIJU
LABORATORIJ ZA BAKTERIJSKE ZOONOZE I MOLEKULARNU
DIJAGNOSTIKU BAKTERIJSKIH BOLESTI
Savska cesta 143, HR-10000 Zagreb

Dokazivanje specifičnih protutijela za brucelozu preživača i svinja
Detection of specific antibodies for ruminant and swine brucellosis
Bakteriološka i molekularna pretraga na uzročnike tuberkuloze govoda
Bacteriological and molecular testing on causative agents of bovine tuberculosis
Bakteriološka i molekularna pretraga na uzročnike bruceloze
Bacteriological and molecular testing on causative agents of brucellosis

Br. No.	Materijali/Proizvodi <i>Materials/Products</i>	Vrsta ispitivanja/Svojstvo <i>Type of test/Property</i> Raspon/Range	Metoda ispitivanja⁽¹⁾ <i>Test method⁽¹⁾</i>
1.	Serumi govoda, svinja, ovaca i koza <i>Bovine, swine, sheep and goat sera</i>	Dijagnostička metoda Rose Bengal test <i>Diagnostic method Rose Bengal test</i>	WOAH Manual of Diagnostic Tests and Vaccines for Terrestrial Animals Chapter: Brucellosis (<i>Brucella abortus</i> , <i>B. melitensis</i> and <i>B. suis</i>) SOP Z-II-1-1
2.	Organi, obrisici, mlijeko <i>Animal tissue, Swabs, Milk</i>	Bakteriološka i molekularna pretraga na uzročnike bruceloze <i>Bacteriological and molecular testing on causative agents of brucellosis.</i>	WOAH Manual of Diagnostic Tests and Vaccines for Terrestrial Animals Chapter: Brucellosis (<i>Brucella abortus</i> , <i>B. melitensis</i> and <i>B. suis</i>) SOP Z-II-1-14

⁽¹⁾ Fleksibilno područje akreditacije - dopuštena je primjena novih izdanja norma/vlastitih metoda za metode ispitivanja za koje nije označena godina/izdanje.

Flexible scope of accreditation - use of new editions of standards/In-house methods for test methods without indicated year of publication/edition is allowed.

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

FLEKSIBILNO PODRUČJE AKREDITACIJE / FLEXIBLE SCOPE OF ACCREDITATION

Red. Br./ No	Oznaka/ Identification	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property	Tehnika/ Technique	Metoda ispitivanja/ Test method
<p>III- Biološki materijal Dijagnostika bolesti životinja (D); Bruceloza goveda (D1), Tuberkuloza goveda (D2)</p> <p><i>III- Biological material</i> <i>Diagnostics of animal diseases (D) Bovine brucellosis (D1), Bovine tuberculosis (D2)</i></p>					
1.	III D1	Serumi goveda/ Bovine sera	Dokazivanje specifičnih protutijela na brucelozu goveda <i>Detection of specific antibodies against bovine brucellosis</i>	ELISA	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>
2.	III D2	Organi goveda Bovine organs	Bakteriološka i molekularna pretraga na uzročnike tuberkuloze goveda <i>Bacteriological and molecular testing on causative agents of bovine tuberculosis</i>	Bakteriološka i molekularna pretraga <i>Bacteriological and molecular investigation</i>	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>

Napomene / Notes:

ELISA – Imunoenzimni test / *Immunoenzymatic test*

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.veinst.hr
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ODJEL ZA BAKTERIOLOGIJU I PARAZITOLOGIJU
LABORATORIJ ZA MASTITISE I KAKVOĆU SIROVOG MLIJEKA
Savska cesta 143, HR-10000 Zagreb

Izdvajanje uzročnika mastitisa iz sekreta vimena
Isolation of mastitis pathogens from udder secretion

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range	Metoda ispitivanja Test method
1.	Sekret vimena <i>Udder secretion</i>	Izdvajanje uzročnika mastitisa <i>Isolation of mastitis pathogens</i>	SOP Z-II-3-07 Rev 05 2024-05-14

ODJEL ZA BAKTERIOLOGIJU I PARAZITOLOGIJU
LABORATORIJ ZA PARAZITOLOGIJU
Savska cesta 143, HR-10000 Zagreb

Dokazivanje prisutnosti Trichinella Larvae u mesu metodom umjetne probave
Detection of Trichinella larvae in meat by artificial digestion method

Dokazivanja ličinki trećeg stupnja oblića iz porodice Anisakidae u ribama i proizvodima ribarstva metodom umjetne probave
The detection of Anisakidae L3 larvae in fish and fishery products by artificial digestion method

Metoda segmentalne sedimentacije i tehnike prebrojavanja (ssct) trakavica roda Echinococcus u crijevima nositelja
Method for segmental sedimentation and counting technique (ssct) for diagnostic of Echinococcus in intestines of final hosts.

Br. No.	Materijali/Proizvodi <i>Materials/Products</i>	Vrsta ispitivanja/Svojstvo <i>Type of test/Property</i> Raspon/Range	Metoda ispitivanja <i>Test method</i>
1.	Mišićno tkivo <i>Muscle tissue</i>	Dokazivanje prisutnosti Trichinella Larvae u mesu metodom umjetne probave <i>Detection of Trichinella larvae in meat by artificial digestion method</i>	HRN EN ISO 18743:2015 (ISO 18743:2015; EN ISO 18743:2015) HRN EN ISO 18743:2015/A1:2023 (ISO 18743:2015/Amd1:2023; EN ISO 18743:2015/A1:2023)
2.	Mišićno tkivo i riblji proizvodi <i>Muscle tissue and fishery products</i>	Dokazivanja ličinki trećeg stupnja oblića iz porodice Anisakidae u ribama i proizvodima ribarstva metodom umjetne probave <i>The detection of Anisakidae L3 larvae in fish and fishery products by artificial digestion method</i>	HRN EN ISO 23036-2:2021 (ISO 23036-2:2021; EN ISO 23036-2:2021)

Br. No.	Materijali/Proizvodi <i>Materials/Products</i>	Vrsta ispitivanja/Svojstvo <i>Type of test/Property</i> Raspon/Range	Metoda ispitivanja <i>Test method</i>
3.	Crijevo karnivora <i>Carnivore intestines</i>	Metoda segmentalne sedimentacije i tehnike prebrojavanja (sstp) trakavica roda <i>Echinococcus</i> u crijevima nositelja <i>Method for segmental sedimentation and counting technique (sstp) for diagnostic of Echinococcus in intestines of final hosts</i>	Umhang G. et al. (2011). Segmental sedimentation and counting technique (SSCT): An adaptable method for qualitative diagnosis of <i>E. multilocularis</i> in fox intestines. <i>Exp Parasitol</i> , 128(1): 57–60. SOP Z-II-4-49 Rev. 01 2025-09-03

ODJEL ZA VIROLOGIJU
LABORATORIJ ZA DIJAGNOSTIKU KLASIČNE SVINJSKE KUGE,
MOLEKULARNU VIROLOGIJU I GENETIKU
Savska cesta 143, HR-10000 Zagreb

Dokazivanje specifičnih protutijela i RNK virusa klasične svinjske kuge
Detection of specific antibodies and RNA of classical swine fever virus
Dokazivanje specifičnih protutijela i DNK virusa afričke svinjske kuge
Detection of specific antibodies and DNA of african swine fever virus

Br. No.	Materijali/Proizvodi <i>Materials/Products</i>	Vrsta ispitivanja/Svojstvo <i>Type of test/Property</i> Raspon/Range	Metoda ispitivanja ⁽¹⁾ <i>Test method⁽¹⁾</i>
1.	Serum svinja <i>Swine sera</i>	Dokazivanje specifičnih protutijela za virus klasične svinjske kuge <i>Detection of specific antibodies against classical swine fever virus</i>	WOAH Manual of Diagnostic Tests and Vaccines for Terrestrial Animals Chapter: Classical swine fever SOP Z-III-1-03
2.		Dokazivanje specifičnih protutijela za virus afričke svinjske kuge <i>Detection of specific antibodies against African swine fever virus</i>	WOAH Manual of Diagnostic Tests and Vaccines for Terrestrial Animals Chapter: African swine fever SOP Z-III-1-46

⁽¹⁾ Fleksibilno područje akreditacije - dopuštena je primjena novih izdanja norma/vlastitih metoda za metode ispitivanja za koje nije označena godina/izdanje
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Red. Br./ No	Oznaka/ Identification	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property	Tehnika/ Technique	Metoda ispitivanja/ Test method
<p>III- Biološki materijal Dijagnostika bolesti životinja (D) izolati DNK (D1), izolati RNK (D2)</p> <p><i>III- Biological material</i> <i>Diagnostics of animal diseases (D) DNA isolates (D1), RNA isolates (D2)</i></p>					
1.	III D1	Izolati DNK DNA isolates	Dokazivanje DNK virusa afričke svinjske kuge Detection of ASF specific DNA	qPCR	Prema popisu metoda dostupnom na www.veinst.hr According to the list of methods available at www.veinst.hr
2.	III D2	Izolati RNK RNA isolates	Dokazivanje RNK virusa klasične svinjske kuge Detection of CSF specific RNA	qRT-PCR	Prema popisu metoda dostupnom na www.veinst.hr According to the list of methods available at www.veinst.hr

Red. Br./ No	Oznaka/ Identification	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property	Tehnika/ Technique	Metoda ispitivanja/ Test method
3.	III D2	Izolati RNK <i>RNA isolates</i>	Dokazivanje RNK virusa groznice doline Rift <i>Detection of Rift valley fever virus RNA</i>	qRT-PCR	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>

Napomene / *Notes:*

qPCR – Lančana reakcija polimerazom u stvarnom vremenu / Real time polymerase chain reaction

qRT-PCR – Lančana reakcija polimerazom uz prethodnu reverznu transkripciju u stvarnom vremenu / Real time reverse transcription polymerase chain reaction

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.

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ODJEL ZA VIROLOGIJU
LABORATORIJ ZA BJESNOĆU I OPĆU VIROLOGIJU
Savska cesta 143, HR-10000 Zagreb

Dokazivanje antigena virusa bjesnoće
Detection of rabies virus antigen
Dokazivanje protutijela virusa bjesnoće
Detection of rabies virus antibodies

Br. No.	Materijali/Proizvodi <i>Materials/Products</i>	Vrsta ispitivanja/Svojstvo <i>Type of test/Property</i> <i>Raspon/Range</i>	Metoda ispitivanja⁽¹⁾ <i>Test method⁽¹⁾</i>
1.	Moždano tkivo divljih i domaćih životinja <i>Brain tissue of wild and domestic animals</i>	Imunofluorescentni test za dokaz virusa bjesnoće <i>Fluorescent antibody test for detection of rabies virus</i>	WOAH Manual of Diagnostic Tests and Vaccines for Terrestrial Animals Chapter: Rabies SOP Z-III-2-01
2.	Krvni serumi pasa, mačaka i pitomih vretica <i>Sera from domestic dogs, cats and ferrets</i>	Virus-neutralizacijski imunofluorescentni test za dokaz protutijela virusa bjesnoće <i>Fluorescent antibody virus neutralisation test for detection of rabies virus antibodies</i>	WOAH Manual of Diagnostic Tests and Vaccines for Terrestrial Animals Chapter: Rabies SOP-Z-III-2-07
3.	Izolati RNK <i>RNA isolates</i>	Dokazivanje RNK virusa kuge malih preživača <i>Detection of PPR specific RNA</i>	WOAH Manual of Diagnostic Tests and Vaccines for Terrestrial Animals Chapter: Peste des petits ruminants SOP-Z-III-2 KMP-IDgene-PPR Duplex

⁽¹⁾ Fleksibilno područje akreditacije - dopuštena je primjena novih izdanja norma/vlastitih metoda za metode ispitivanja za koje nije označena godina/izdanje.

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**ODJEL ZA VIROLOGIJU
LABORATORIJ ZA SEROLOŠKU DIJAGNOSTIKU
VIRUSNIH BOLESTI**

Savska cesta 143, HR-10000 Zagreb

**Dokaz protutijela za virus slinavke i šapa (SIŠ) i vezikularne bolesti svinja (VBS)
primjenom imunoenzimnog testa (ELISA)**

Detection of antibodies for foot and mouth disease virus (FMDV) and swine vesicular disease virus (SVDV) by Enzyme Linked Immunosorbent Assay (ELISA)

Dokaz protutijela za virus enzootske leukoze goveda primjenom imunoenzimnog testa (ELISA), probirni i potvrdni test

Detection of antibodies for enzootic bovine leukosis virus by Enzyme Linked Immunosorbent Assay (ELISA), screening and confirmation test

Br. No.	Materijali/Proizvodi <i>Materials/Products</i>	Vrsta ispitivanja/Svojstvo <i>Type of test/Property</i> Raspon/Range	Metoda ispitivanja ⁽¹⁾ <i>Test method⁽¹⁾</i>
1.	Krvni serum goveda <i>Bovine blood sera</i>	Imunoenzimni test za dokazivanje protutijela za virus enzootske leukoze goveda (probirni test) <i>ELISA for detection of antibodies for enzootic bovine leukosis virus (screening test)</i>	WOAH Manual of Diagnostic Tests and Vaccines for Terrestrial Animals Chapter Enzootic bovine leukosis SOP Z-III-3-40
2.		Imunoenzimni test za dokazivanje protutijela za virus enzootske leukoze goveda (potvrdni test) <i>ELISA for detection of antibodies for bovine leukosis virus (confirmation test)</i>	WOAH Manual of Diagnostic Tests and Vaccines for Terrestrial Animals Chapter Enzootic bovine leukosis SOP Z-III-3-39

⁽¹⁾ Fleksibilno područje akreditacije - dopuštena je primjena novih izdanja norma/vlastitih metoda za metode ispitivanja za koje nije označena godina/izdanje

Flexible scope of accreditation - use of new editions of standards/In-house methods for test methods without indicated year of publication/edition is allowed.

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Red. Br./ No	Oznaka/ Identification	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property	Tehnika/ Technique	Metoda ispitivanja/ Test method
III- Biološki materijal Dijagnostika bolesti životinja (D): Slinavka i šap (D1), Vezikularna bolest svinja (D2), III- Biological material Diagnostics of animal diseases (D) Foot and mouth disease (D1), Swine vesicular disease (D2)					
1.	III D1	Krvni serum goveda, svinja, ovaca i koza <i>Blood sera of swine, cattle, sheep and goat</i>	Imunoenzimni test za dokazivanje protutijela za nestrukturini protein virusa slinavke i šapa <i>ELISA for detection of antibodies to the non-structural protein of foot and mouth disease virus</i>	ELISA	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>
2.	III D2	Krvni serum svinja <i>Blood sera of swine</i>	Imunoenzimni test za dokazivanje protutijela za virus vezikularne bolesti svinja <i>ELISA for detection of antibodies for swine vesicular disease virus</i>	ELISA	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>

Napomene / Notes:

ELISA– Imunoenzimni test / *Immunoenzymatic test*

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ODJEL ZA PATOLOŠKU MORFOLOGIJU
LABORATORIJ ZA TRANSMISIVNE SPONGIFORMNE ENCEFALOPATIJE
Savska cesta 143, HR-10000 Zagreb

Određivanje i potvrda govede spongiformne encefalopatije (GSE) u moždanom tkivu goveda

Detection and confirmation of bovine spongiform encephalopathy (BSE) in bovine brain tissue

Određivanje i potvrda grebeža ovaca u moždanom tkivu malih preživača

Detection and confirmation of Scrapie in brain tissue of small ruminants

Br. No.	Materijali/Proizvodi <i>Materials/Products</i>	Vrsta ispitivanja/Svojstvo <i>Type of test/Property</i> Raspon/Range	Metoda ispitivanja <i>Test method</i>
1.	Moždano tkivo goveda i malih preživača <i>Bovine brain tissue and small ruminants brain tissue</i>	Određivanje govede spongiformne encefalopatije (GSE) i grebeža ovaca u moždanom tkivu testom IDEXX HerdCheck BSE-Scrapie Antigen Test Kit, EIA <i>Detection of Bovine spongiform encephalopathy (BSE) and Scrapie in brain tissue using test IDEXX HerdCheck BSE-Scrapie Antigen Test Kit, EIA</i>	SOP Z-IV-2 MT 03 Rev 04 2025-06-10 (Regulation (EC) 999/2001)
2.		Konfirmacija govede spongiformne encefalopatije, grebeža ovaca i spongiformne encefalopatije jelena metodom TeSeE western blot Biorad <i>Confirmation of Bovine spongiform encephalopathy (BSE), Scrapie and Chronic wasting disease (CWD) by TeSeE Biorad western blot method</i>	SOP Z-IV-2 MT06 Rev 01 2023-04-13 (Regulation (EC) 999/2001)

ODJEL ZA PATOLOŠKU MORFOLOGIJU
LABORATORIJ ZA BOLESTI AKVATIČNIH ŽIVOTINJA
Savska cesta 143, HR-10000 Zagreb

Virusološka pretraga riba na staničnim kulturama EPC i BF-2
Isolation of fish viruses in cultures of fish cell lines EPC and BF-2

Dokazivanje RNK virusa virusne hemoragijske septikemije metodom PCR u stvarnom vremenu

Detection of Viral Hemorrhagic Septicemia virus RNA using real-time PCR

Dokazivanje RNK virusa Zarazne hematopoetske nekroze metodom PCR u stvarnom vremenu

Detection of viral Infectious Haemopoetic necrosis virus RNA using real-time PCR

Dokazivanje DNK virusa Sindroma bijelih pjega rakova metodom PCR u stvarnom vremenu

Detection of viral DNA White Spot Syndrom Virus in shrimps using real-time PCR

Dokazivanje DNK Bonamia ostreae i Bonamia exitiosa metodom multipleks PCR u stvarnom vremenu

Detection of Bonamia ostreae and B. exitiosa DNA using multiplex real-time PCR

Dokazivanje DNK Marteilia refringens tip O i M metodom multipleks PCR u stvarnom vremenu

Detection of Marteilia refringens DNA type O and M using multiplex real-time PCR

Br. No.	Materijali/Proizvodi <i>Materials/Products</i>	Vrsta ispitivanja/Svojstvo <i>Type of test/Property</i> Raspon/Range	Metoda ispitivanja ⁽¹⁾ <i>Test method</i>
1.	Tkiva i spolni produkti riba <i>Fish tissues and ovarian fluid</i>	Izdvajanje virusa na staničnim kulturama EPC i BF-2 <i>Isolation of fish viruses in cultures of fish cell lines EPC and BF-2</i>	WOAH Manual of Diagnostic Tests for Aquatic Animals Chapter Diseases of Fish: General Information SOP Z-IV-3-R-07

Br. No.	Materijali/Proizvodi <i>Materials/Products</i>	Vrsta ispitivanja/Svojstvo <i>Type of test/Property</i> Raspon/Range	Metoda ispitivanja ⁽¹⁾ <i>Test method</i>
2.	Tkivo ribe i supernatant sa staničnih kultura <i>Fish tissue and cell culture supernatant</i>	Dokazivanje RNK virusa Virusne hemoragijske septikemije metodom PCR u stvarnom vremenu <i>Detection of Viral Hemorrhagic Septicemia virus RNA using real-time PCR</i>	WOAH Manual of Diagnostic Tests for Aquatic Animals, chapter: Infection with viral haemorrhagic septicaemia virus (VHSV) Diagnostic methods and procedures for the surveillance and confirmation of infection with VHSV and IHNV, v2021.2. European Union Reference Laboratory for Fish Diseases, Lyngby, Danska (v.2021.2) SOP Z-IV-3-R-24
3.	Tkivo ribe i supernatant sa staničnih kultura <i>Fish tissue and cell culture supernatant</i>	Dokazivanje RNK virusa Zarazne hematopoetske nekroze metodom PCR u stvarnom vremenu <i>Detection of viral Infectious Haemopoetic necrosis virus RNA using real-time PCR</i>	WOAH Manual of Diagnostic Tests for Aquatic Animals, chapter: Infection with infectious haematopoietic necrosis virus Diagnostic methods and procedures for the surveillance and confirmation of infection with VHSV and IHNV, v2021.2. European Union Reference Laboratory for Fish Diseases, Lyngby, Danska (v.2021.2) SOP Z-IV-3-R-25

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range	Metoda ispitivanja ⁽¹⁾ Test method
4.	Tkivo rakova <i>Tissue of crustaceans</i>	Dokazivanje DNK virusa Sindroma bijelih pjega rakova metodom PCR u stvarnom vremenu <i>Detection of viral DNA White Spot Syndrom Virus in shrimps using real-time PCR</i>	WOAH Manual of Diagnostic Tests for Aquatic Animals, chapter: Infection with White Spot Syndrome Virus EU Diagnostic Methods and Procedures for the Surveillance and Confirmation of White Spot Syndrome Virus. European Union Reference Laboratory for Crustacean Diseases, Lyngby, Danska (version 1.0 21-04-2021) SOP Z-IV-3-RK-02
5.	Tkivo kamenica <i>Tissue of oysters</i>	Dokazivanje DNK <i>Bonamia ostreae</i> i <i>Bonamia exitiosa</i> metodom multipleks PCR u stvarnom vremenu <i>Detection of Bonamia ostreae and B. exitiosa DNA using multiplex real-time PCR</i>	WOAH Manual of Diagnostic Tests for Aquatic Animals, chapter: Infection with <i>Bonamia exitiosa</i> ; chapter: Infection with <i>Bonamia ostreae</i> <i>Bonamia ostreae</i> and <i>Bonamia exitiosa</i> detection by Real time Polymerase Chain Reaction (PCR) 2nd edition, Standard Operating Procedure. European Union Reference Laboratory for Molluscs Diseases, La Tremblade, Francuska (version 2.0 02.02.2023.) SOP Z-IV-3-Š-03

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property <i>Raspon/Range</i>	Metoda ispitivanja ⁽¹⁾ Test method
6.	Tkivo kamenica i dagnji <i>Tissue of oysters and mussels</i>	Dokazivanje DNK <i>Marteilia refringens</i> tip O i tip M metodom multipleks PCR u stvarnom vremenu <i>Detection of Marteilia refringens DNA type O and M using multiplex real-time PCR</i>	WOAH Manual of Diagnostic Tests for Aquatic Animals, chapter: Infection with <i>Marteilia refringens</i> <i>Marteilia refringens</i> detection and typing by by Taqman® Real Time Polymerase Chain Reaction Standard Operating Procedure. European Union Reference Laboratory for Molluscs Diseases, La Tremblade, Francuska (version 3a 2023.) SOP Z-IV-3-Š-04

- ⁽¹⁾ Fleksibilno područje akreditacije - dopuštena je primjena novih izdanja norma/vlastitih metoda za metode ispitivanja za koje nije označena godina/izdanje.
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CENTAR ZA PERADARSTVO
LABORATORIJ ZA ANALITIKU STOČNE HRANE
Heinzlova 55, HR-10000 Zagreb

Ispitivanje hrane i hrane za životinje
Testing of food and animal feeding stuffs

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range	Metoda ispitivanja Test method
1.	Hrana za životinje Animal feeding stuffs	Određivanje udjela masti Determination of fat content	HRN ISO 6492:2001 (ISO 6492:1999)
2.		Horizontalna metoda za otkrivanje <i>Salmonella</i> spp Horizontal method for the 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/Amd1:2020; EN ISO 6579-1:2017/A1:2020)
3.	Hrana i hrana za životinje Food and animal feeding stuffs	Horizontalna metoda za otkrivanje <i>Escherichia coli</i> O157 Horizontal method for the detection of <i>Escherichia coli</i> O157	HRN EN ISO 16654:2003 (ISO 16654:2001; EN ISO 16654:2001) HRN EN ISO 16654:2003/A1:2017 (ISO 16654:2001/Amd 1;2017; EN ISO 16654:2001/A1:2017) HRN EN ISO 16654:2003/A2:2023 (ISO 16654:2001/Amd 2;2023; EN ISO 16654:2001/A2:2023)
4.		Određivanje deoksinivalenola ELISA metodom Determination of deoxynivalenol by ELISA	SOP C-1-M-07 Rev 00 2008-10-10
5.		Određivanje T-2/HT-2 toksina ELISA metodom Determination of T-2/HT-2 toxin by ELISA	SOP C-1-M-19 Rev 00 2010-09-01
6.	Određivanje aflatoksina B1 i ukupnih aflatoksina (B1, B2, G1,G2) ELISA metodom Determination of aflatoxins by ELISA	SOP C-1-M-06 Rev 00 2009-12-10	

Br. No.	Materijali/Proizvodi <i>Materials/Products</i>	Vrsta ispitivanja/Svojstvo <i>Type of test/Property</i> Raspon/Range	Metoda ispitivanja <i>Test method</i>
7.	Hrana, hrana za životinje i okolišni uzorci <i>Food, animal feeding stuffs and environmental samples</i>	Horizontalna metoda za brojenje kvasca i plijesni – 2. dio: Tehnika brojenja kolonija u proizvodima s aktivitetom vode manjim ili jednakim 0,95 <i>Horizontal method for the enumeration of yeasts and moulds -- Part 2: Colony count technique in products with water activity less than or equal to 0,95</i>	HRN ISO 21527- 2:2012 <i>(ISO 21527-2:2008)</i>

CENTAR ZA PERADARSTVO
LABORATORIJ ZA BAKTERIOLOGIJU
Heinzelova 55, HR-10000 Zagreb

Izdvajanje *Salmonella* spp. iz jaja i uzoraka iz primarne proizvodnje
Detection of Salmonella spp. from eggs and samples from the primary production
Serološka tipizacija *Salmonella* spp.
Serotyping of Salmonella spp.
Izdvajanje *Campylobacter* spp. iz cekuma i fecesa peradi
Detection of Campylobacter spp. from caeca and faeces of poultry

Br. No.	Materijali/Proizvodi <i>Materials/Products</i>	Vrsta ispitivanja/Svojstvo <i>Type of test/Property</i> Raspon/Range	Metoda ispitivanja <i>Test method</i>
1.	Jaja i uzorci iz primarne proizvodnje <i>Eggs and Samples from the primary production</i>	Horizontalna metoda za dokazivanje prisutnosti, određivanje broja i serotipizaciju <i>Salmonella</i> -- 1. dio: Dokazivanje prisutnosti <i>Salmonella</i> spp. <i>Horizontal method for the detection, enumeration and serotyping of Salmonella -- Part 1: Detection of Salmonella spp.</i>	HRN EN ISO 6579-1:2017 <i>(ISO 6579-1:2017; EN ISO 6579-1:2017)</i> HRN EN ISO 6579-1:2017/A1:2020 <i>(ISO 6579-1:2017/Amd1:2020; EN ISO 6579-1:2017/A1:2020)</i>
2.	Cekumi, feces <i>Caeca, faeces</i>	Horizontalna metoda za dokazivanje prisutnosti i određivanje broja <i>Campylobacter</i> spp. – 1. dio: Dokazivanje prisutnosti <i>Horizontal method for detection and enumeration of Campylobacter spp. – Part 1: Detection method</i>	HRN EN ISO 10272-1:2017 <i>(ISO 10272-1:2017; EN ISO 10272-1:2017)</i> HRN EN ISO 10272-1:2017/A1:2023 <i>(ISO 10272-1:2017/Amd 1:2023 EN ISO 10272-1:2017/A1:2023)</i>
3.	Bakterijski sojevi <i>Bacterial strains</i>	Horizontalna metoda za dokazivanje prisutnosti, brojenje i serotipizaciju <i>Salmonella</i> – Dio.3 Smjernice za serotipizaciju <i>Salmonella</i> spp. <i>Horizontal method for the detection, enumeration and serotyping of Salmonella – Part 3 Guidelines for serotyping of Salmonella spp.</i>	HRI CEN ISO/TR 6579-3:2014 <i>(ISO/TR 6579-3:2014; CEN ISO/TR 6579-3:2014)</i>

CENTAR ZA PERADARSTVO
LABORATORIJ ZA VIROLOGIJU I PATOLOGIJU
Heinzelova 55, HR-10000 Zagreb

Mikrobiološka, molekularna i serološka dijagnostika bolesti životinja
Microbiological, molecular and serological diagnostics of animal diseases

Br. No.	Materijali/Proizvodi <i>Materials/Products</i>	Vrsta ispitivanja/Svojstvo <i>Type of test/Property</i> Raspon/Range	Metoda ispitivanja <i>Test method</i>
1.	Brisevi, organi, sekreti, ekskreti i virusni izolati <i>Swabs, organs, secretions, excretions and virus isolates</i>	Molekularna detekcija virusa influenza A <i>Molecular detection of Influenza A virus</i>	Real Time PCR za M gen virusa influenza A <i>Real Time PCR for influenza A matrix gene</i> SOP C-4-15 Rev 08 2024-01-22
2.		Molekularna detekcija virusa newcastleske bolesti <i>Molecular detection of Newcastle disease virus</i>	Real Time PCR za detekciju virusa newcastleske bolesti <i>Real Time PCR for detection of Newcastle disease virus</i> SOP C-4-22 Rev 05 2024-01-22

VETERINARSKI ZAVOD KRIŽEVCI
LABORATORIJ ZA DIJAGNOSTIKU
Ivana Zakmardija Dijankovečkog 10, HR-48260 Križevci

Bakteriološka dijagnostika bolesti životinja
Bacteriological diagnostics of animal diseases
Parazitološka dijagnostika bolesti životinja
Parasitological diagnostics of animal diseases
Serološka dijagnostika bolesti životinja
Serological diagnostics of animal diseases

Br. No.	Materijali/Proizvodi <i>Materials/Products</i>	Vrsta ispitivanja/Svojstvo <i>Type of test/Property</i> Raspon/Range	Metoda ispitivanja <i>Test method</i>
1.	Jaja i uzorci iz primarne proizvodnje <i>Eggs and Samples from the primary production</i>	Horizontalna metoda za dokazivanje prisutnosti, određivanje broja i serotipizaciju <i>Salmonella</i> -- 1. dio: Dokazivanje prisutnosti <i>Salmonella</i> spp. <i>Horizontal method for the detection, enumeration and serotyping of Salmonella -- Part 1: Detection of Salmonella spp.</i>	HRN EN ISO 6579-1:2017 <i>(ISO 6579-1:2017; EN ISO 6579-1:2017)</i> HRN EN ISO 6579-1:2017/A1:2020 <i>(ISO 6579-1:2017/Amd1:2020; EN ISO 6579-1:2017/A1:2020)</i>
2.	Mišićno tkivo <i>Muscle tissue</i>	Otkrivanje ličinki <i>Trichinella</i> spp. metodom umjetne probave <i>Detection of Trichinella spp. larvae by artificial digestion</i>	HRN EN ISO 18743:2015 <i>(ISO 18743:2015; EN ISO 18743:2015)</i> HRN EN ISO 18743:2015/A1:2023 <i>(ISO 18743:2015/Amd1:2023; EN ISO 18743:2015/A1:2023)</i>
3.	Serumi goveda, svinja, ovaca i koza <i>Bovine, swine, sheep and goat sera</i>	Dijagnostička metoda Rose Bengal test <i>Diagnostic method Rose Bengal test</i>	WOAH ⁽¹⁾ Manual of Diagnostic Tests and Vaccines for Terrestrial Animals Chapter: Brucellosis (<i>Brucella abortus</i> , <i>B. melitensis</i> and <i>B. Suis</i>) 7.2/K1/SOP25/WOAH/RBT
4.	Feces <i>Faeces</i>	Koprološka pretraga – flotacija Modificirana McMaster metoda <i>Fecal examination – Flotation Modified McMaster test</i>	7.2/K1/SOP50 Rev.02 2023-04-19

⁽¹⁾ Fleksibilno područje akreditacije - dopuštena je primjena novih izdanja norma/vlastitih metoda za metode ispitivanja za koje nije označena godina/izdanje.

Flexible scope of accreditation - use of new editions of standards/In-house methods for test methods without indicated year of publication/edition is allowed.

Važeći popis akreditiranih metoda iz fleksibilnog područja akreditacije dostupan je na www.veinst.hr

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

VETERINARSKI ZAVOD KRIŽEVCI
LABORATORIJ ZA MIKROBIOLOGIJU I ANALITIČKU KEMIJU
Ivana Zakmardija Dijankovečkog 10, HR-48260 Križevci

Ispitivanja hrane, hrane za životinje, vode za ljudsku potrošnju i otpadnih voda
Testing of food, animal feeding stuffs, water for human consumption and waste water

**Ispitivanje ostataka veterinarskih lijekova
u tkivima i hrani**

Analysis of veterinary drugs residues in tissues and food

Određivanje okolišnih kontaminanata u hrani

Determination of environmental contaminants in food

Uzorkovanje hrane, hrane za životinje, voda i okolišnih uzoraka u proizvodnji hrane
Sampling of food, animal feeding stuffs, waters and environmental samples in food production

Br. No.	Materijali/Proizvodi <i>Materials/Products</i>	Vrsta ispitivanja/Svojstvo <i>Type of test/Property</i> Raspon/Range	Metode ispitivanja <i>Test method</i>
1.	Hrana i hrana za životinje <i>Food and animal feeding stuffs</i> Okolišni uzorci u proizvodnji hrane <i>Environmental samples in food production</i>	Horizontalna metoda za dokazivanje prisutnosti, određivanje broja i serotipizaciju <i>Salmonella</i> -- 1. dio: Dokazivanje prisutnosti <i>Salmonella</i> spp. <i>Horizontal method for the detection, enumeration and serotyping of Salmonella -- Part 1: Detection of Salmonella spp.</i>	HRN EN ISO 6579-1:2017 <i>(ISO 6579-1:2017; EN ISO 6579-1:2017)</i> HRN EN ISO 6579-1:2017/A1:2020 <i>(ISO 6579-1:2017/Amd1:2020; EN ISO 6579-1:2017/A1:2020)</i>
2.	Hrana i hrana za životinje <i>Food and animal feeding stuffs</i>	Metoda brojenja beta-glukuronidaza pozitivne <i>Escherichia coli</i> – Dio 2.: Brojenje kolonija pri 44 °C uporabom 5-bromo-4-chloro-3-indolyl beta-D-glucuronide <i>Horizontal method for the enumeration of beta-glucuronidase-positive Escherichia coli - Part 2: Colony-count technique at 44 °C using 5-bromo-4-chloro-3-indolyl beta-D-glucuronide</i>	HRN ISO 16649-2:2001 <i>(ISO 16649-2:2001)</i>

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property <i>Raspon/Range</i>	Metode ispitivanja Test method
3.		Horizontalna metoda za dokazivanje prisutnosti i određivanje broja <i>Listeria monocytogenes</i> i drugih <i>Listeria</i> spp. – 1. Dio.: Metoda dokazivanja prisutnosti <i>Horizontal method for the detection and enumeration of Listeria monocytogenes and other Listeria spp. – Part 1: Detection method</i>	HRN EN ISO 11290-1:2017 <i>(ISO 11290-1:2017; EN ISO 11290-1:2017)</i>
4.	Hrana i hrana za životinje <i>Food and animal feeding stuffs</i> Okolišni uzorci u proizvodnji hrane <i>Environmental samples in food production</i>	Horizontalna metoda za dokazivanje prisutnosti i određivanje broja <i>Listeria monocytogenes</i> i drugih <i>Listeria</i> spp. – 2. dio: Metoda određivanja broja <i>Horizontal method for the detection and enumeration of Listeria monocytogenes and of Listeria spp. – Part 2: Enumeration method</i>	HRN EN ISO 11290-2:2017 <i>(ISO 11290-2:2017; EN ISO 11290-2:2017)</i>
5.		Horizontalna metoda za dokazivanje prisutnosti i određivanje broja <i>Enterobacteriaceae</i> – 2. dio: Postupak određivanja broja kolonija <i>Horizontal method for the detection and enumeration of Enterobacteriaceae -- Part 2: Colony-count technique</i>	HRN EN ISO 21528-2:2017 <i>(ISO 21528-2:2017; EN ISO 21528-2:2017)</i>
6.	Voda za ljudsku potrošnju, izvorske, prirodne mineralne i stolne vode <i>Water for human consumption, spring water, natural mineral water and table water</i>	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 <i>(ISO 7899-2:2000; EN ISO 7899-2:2000)</i>

Br. No.	Materijali/Proizvodi <i>Materials/Products</i>	Vrsta ispitivanja/Svojstvo <i>Type of test/Property</i> Raspon/Range	Metode ispitivanja <i>Test method</i>
7.		Brojenje uzgojenih mikroorganizama – Broj kolonija nacjepljivanjem 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 <i>(ISO 6222:1999; EN ISO 6222:1999)</i>
8.	Voda za ljudsku potrošnju, izvorske, prirodne mineralne i stolne vode <i>Water for human consumption, spring water, natural mineral water and table water</i>	Brojenje <i>Escherichia coli</i> i koliformnih bakterija – 1. dio: Metoda membranske filtracije za vode s niskom pozadinom bakterijske flore <i>Enumeration of Escherichia coli and coliform bacteria – Part 1: Membrane filtration method for waters with low bacterial background flora</i>	HRN EN ISO 9308-1:2014 <i>(ISO 9308-1:2014; EN ISO 9308-1:2014)</i> HRN EN ISO 9308-1:2014/A1:2017 <i>(ISO 9308-1:2014/Amd1:2016; EN ISO 9308-1:2014/A1:2017)</i>
9.		Detekcija i brojenje <i>Pseudomonas aeruginosa</i> - metoda membranske filtracije <i>- Detection and enumeration of Pseudomonas aeruginosa -- Method by membrane filtration</i>	HRN EN ISO 16266:2008 <i>(ISO 16266:2006; EN ISO 16266:2008)</i>
10.	Mikrobiologija u lancu hrane <i>Microbiology of the food chain</i>	Horizontalna metoda određivanja broja koagulaza-pozitivnih stafilocoka (<i>Staphylococcus aureus</i> i ostale vrste) – 1. dio: Postupak primjene Baird-Parker agara <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 <i>(ISO 6888-1:2021; EN ISO 6888-1:2021)</i>

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range	Metode ispitivanja Test method
11.	Hrana i hrana za životinje <i>Food and animal feeding stuffs</i> Okolišni uzorci u proizvodnji hrane <i>Environmental samples in food production</i>	Horizontalna metoda za dokazivanje prisutnosti i određivanje broja <i>Campylobacter</i> spp. - 2. dio: Postupak određivanja broja kolonija <i>Horizontal method for detection and enumeration of Campylobacter spp. – Part 2: Colony-count technique</i>	HRN EN ISO 10272-2:2017 <i>(ISO 10272-2:2017; EN ISO 10272-2:2017)</i> HRN EN ISO 10272-2:2017/A1:2023 <i>(ISO 10272-2:2017/A1:2023)</i>
12.	Hrana i hrana za životinje <i>Food and animal feeding stuffs</i>	Horizontalna metoda za brojenje kvasca i plijesni – 1. dio: Tehnika brojenja kolonija u proizvodima s aktivitetom vode većim od 0,95 <i>Horizontal method for the enumeration of yeasts and moulds -- Part 1: Colony count technique in products with water activity greater than 0,95</i>	HRN ISO 21527-1:2012 <i>(ISO 21527-1:2008)</i>
13.		Horizontalna metoda za brojenje kvasca i plijesni – 2. dio: Tehnika brojenja kolonija u proizvodima s aktivitetom vode manjim ili jednakim 0,95 <i>Horizontal method for the enumeration of yeasts and moulds -- Part 2: Colony count technique in products with water activity less than or equal to 0,95</i>	HRN ISO 21527-2:2012 <i>(ISO 21527-2:2008)</i>
14.	Hrana i hrana za životinje <i>Food and animal feeding stuffs</i> Okolišni uzorci u proizvodnji hrane <i>Environmental samples in food production</i>	Horizontalna metoda za određivanje broja mikroorganizama - Tehnike određivanja broja kolonija pri 30 °C <i>Horizontal method for the enumeration of microorganisms – Colony count techniques at 30 °C</i>	HRN EN ISO 4833-1:2013 <i>(ISO 4833-1:2013; EN ISO 4833-1:2013)</i> HRN EN ISO 4833-1:2013/A1:2022 <i>(ISO 4833-1:2013/A1:2022; EN ISO 4833-1:2013/A1:2022)</i>

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range	Metode ispitivanja Test method
15.	Hrana i hrana za životinje <i>Food and animal feeding stuffs</i> Okolišni uzorci u proizvodnji hrane <i>Environmental samples in food production</i>	Horizontalna metoda za određivanje broja mikroorganizama - Tehnike određivanja broja kolonija pri 30 °C <i>Horizontal method for the enumeration of microorganisms – Colony count techniques at 30 °C</i>	HRN EN ISO 4833- 2:2013 <i>(ISO 4833-2:2013; EN ISO 4833- 2:2013)</i> HRN EN ISO 4833- 2:2013/Ispr.1:2014 <i>(ISO 4833- 2:2013/Cor.1:2014; EN ISO 4833- 2:2013/AC:2014)</i> HRN EN ISO 4833- 2:2013/A1:2022 <i>(ISO 4833-2:2013/Amd 1:2022; EN ISO 4833- 2:2013/A1:2022)</i>
16.	Hrana <i>Food</i>	Horizontalna metoda za dokazivanje i određivanje broja <i>Clostridium</i> spp. – 1.dio: Određivanje broja sulfitreducirajućih <i>Clostridium</i> spp. tehnikom brojenja kolonija <i>Horizontal method for the detection and enumeration of Clostridium spp. – Part 1: Enumeration of sulfite-reducing Clostridium spp. by colony count technique</i>	HRN EN ISO 15213-1:2023 <i>(ISO 15213-1:2023; EN ISO 15213-1:2023)</i>

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property <i>Raspon/Range</i>	Metode ispitivanja Test method
17.	<p style="text-align: center;">Voda za ljudsku potrošnju, izvorske, prirodne mineralne i stolne vode <i>Water for human consumption, spring water, natural mineral water and table water</i></p>	<p>Određivanje otopljenih aniona ionskom tekućinskom kromatografijom – 1. dio: Određivanje bromida, klorida, fluorida, nitrata, nitrita, fosfata i sulfata <i>Determination of dissolved anions by liquid chromatography of ions – Part 1:</i> <i>Determination of bromide, chloride, fluoride, nitrate, nitrite, phosphate and sulfate</i></p> <p>Granica kvantifikacije/ <i>Quantification limit</i> F⁻ 0,10 mg/L Cl⁻ 0,50 mg/L NO₂⁻ 0,10 mg/L Br⁻ 0,10 mg/L NO₃⁻ 0,20 mg/L PO₄³⁻ 0,10 mg/L SO₄²⁻ 0,20 mg/L</p>	<p style="text-align: center;">HRN EN ISO 10304-1:2009 <i>(ISO 10304-1:2007; EN ISO 10304-1:2009)</i></p>
18.		<p>Određivanje otopljenih Na⁺, NH₄⁺, K⁺, Ca²⁺ i Mg²⁺ ionskom kromatografijom <i>Determination of dissolved Na⁺, NH₄⁺, K⁺, Ca⁺² and Mg⁺² using ion chromatography</i></p> <p>Granica kvantifikacije/ <i>Quantification limit</i> Na⁺ 0,50 mg/L NH₄⁺ 0,10mg/L K⁺ 0,50 mg/L Ca²⁺ 1,0mg/L Mg²⁺ 0,50 mg/L</p>	<p style="text-align: center;">HRN EN ISO 14911:2001 <i>(ISO 14911:1998; EN ISO 14911:1999)</i></p>

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range	Metode ispitivanja Test method
19.	Otpadna voda Waste water	<p>Određivanje fosfora - Spektrometrijska metoda s amonijevim molibdatom <i>Determination of phosphorus -- Ammonium molybdate spectrometric method</i></p> <p>Granica kvantifikacije/ <i>Quantification limit</i> 0,05 mg/L</p>	<p>HRN EN ISO 6878:2008 <i>(ISO 6878:2004; EN ISO 6878:2004)</i></p> <p>7.2/K3/SOP 10, Rev 03 2020-04-10 <i>modificirana/modified</i></p>
20.	Med Honey	<p>Određivanje vode u medu –refraktometrijski <i>Determination of moisture – refractometric method</i></p> <p>13 % do/ to 25 %</p>	<p>AOAC, 18th ed., 2005 Official method No. 969.38</p>
21.	Voda za ljudsku potrošnju Water for human consumption	<p>Uzorkovanje <i>Sampling</i></p>	<p>HRN ISO 5667-5:2011 <i>(ISO 5667-5:2006)</i></p> <p>HRN EN ISO 19458:2008 <i>(ISO 19458:2006; EN ISO 19458:2006)</i></p>
22.	Otpadna voda Waste water	<p>Uzorkovanje <i>Sampling</i></p>	<p>HRN ISO 5667-10:2020 <i>(ISO 5667-10:2020)</i></p>

Br. No.	Materijali/Proizvodi <i>Materials/Products</i>	Vrsta ispitivanja/Svojstvo <i>Type of test/Property</i> Raspon/Range	Metode ispitivanja <i>Test method</i>
23.	<p>Aromatizirani fermentirani mliječni proizvodi, uključujući toplinski obrađene proizvode, Smrznuti deserti (sladoled, mliječni sladoled, krem sladoled, smrznuti aromatizirani deserti, smrznuti voćni desert uključujući sorbet i šerbet)</p> <p>Prerađena riba i ribarski proizvodi, uključujući mekušce i rakove (surimi štapići i sl. proizvodi), Riblja ikra</p> <p><i>Flavoured fermented milk products including heat-treated products, Edible ices, Processed fish and fishery products including molluscs and crustaceans (surimi and similar products) Fish roe</i></p>	<p>Određivanje koncentracije bojila E102, E104, E110, E122, E123, E124, E127, E129, E131, E132, E133, E142, E151 i E155 HPLC-DAD metodom</p> <p><i>Determination of colorants E102, E104, E110, E122, E123, E124, E127, E129, E131, E132, E133, E142, E151 and E155 by HPLC-DAD method</i></p>	<p>7.2/K3/SOP124 Rev 01 2020-04-10</p>
24.	<p>Hrana <i>Food</i></p>	<p>Određivanje aktiviteta vode <i>Determination of water activity</i></p>	<p>HRN ISO 18787:2020 (ISO 18787:2017)</p>

FLEKSIBILNO PODRUČJE AKREDITACIJE / FLEXIBLE SCOPE OF ACCREDITATION

Red. Br./ No	Oznaka/ Identification	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property	Tehnika/ Technique	Metoda ispitivanja/ Test method
<p>I - Hrana Farmakološki djelatne tvari (B) Benzimidazoli i levamisol (B1) Kontaminanti (C) Polarni pesticidi (C1)</p> <p>I - Food Pharmacologically active substances (B) Benzimidazole and levamisole (B1) Contaminants (C) Polar pesticides (C1)</p>					
1.	I B1	<p>Hrana životinjskog podrijetla Food of animal origin</p>	<p>Određivanje koncentracija benzimidazola i levamisola <i>Determination of benzimidazole and levamisole</i></p>	LC-MS/MS	<p>Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i></p>

2.	I C1	<p>Masnoća iz namirnica životinjskog podrijetla/Masnoća od mesa Iznutrice/Jetra/Mlijeko/Ptičja jaja <i>Fat from food of animal origin/Fat from meat Offal/Liver/Milk/Bird eggs</i></p>	<p>Određivanje polarnih pesticida u hrani životinjskog podrijetla primjenom LC-MS/MS (AMPA, Glifosat, <i>N</i>-acetyl-AMPA, <i>N</i>-acetyl-glifosat, Glufosinat, MPPA, <i>N</i>-acetyl-glufosinat, klormekvat, mepikvat) <i>Determination of polar pesticides in food of animal origin using LC-MS/MS (AMPA, Glyphosate, N-acetyl-AMPA, N-acetyl-glyphosate, Glufosinate, MPPA, N-acetyl-glufosinate, Chlormequat, Mepiquat)</i></p>	LC-MS/MS	<p>Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i></p>
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Napomene / Notes:

LC-MS/MS: tekućinska kromatografija i višestruka spektrometrija masa (*engl. Liquid chromatography–tandem mass spectrometry, LC-MS/MS*)

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.

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VETERINARSKI ZAVOD RIJEKA
LABORATORIJ ZA DIJAGNOSTIKU
Podmurvice 29, HR-51000 Rijeka

Dokazivanje antigena virusa bjesnoće
Detection of rabies virus antigen
Izdvajanje *Salmonella* spp. iz fecesa peradi
*Detection of *Salmonella* spp. from faeces of poultry*
Dokazivanje specifičnih protutijela za brucelozu preživača i svinja
Detection of specific antibodies for ruminant and swine brucellosis

Br. No.	Materijali/Proizvodi <i>Materials/Products</i>	Vrsta ispitivanja/Svojstvo <i>Type of test/Property</i> Raspon/Range	Metoda ispitivanja <i>Test method</i>
1.	Jaja i uzorci primarne proizvodnje <i>Eggs and samples from the primary production</i>	Horizontalna metoda za dokazivanje prisutnosti, određivanje broja i serotipizaciju <i>Salmonella</i> -- 1. dio: Dokazivanje prisutnosti <i>Salmonella</i> spp. <i>Horizontal method for the detection, enumeration and serotyping of Salmonella -- Part 1: Detection of Salmonella spp.</i>	HRN EN ISO 6579-1:2017 <i>(ISO 6579-1:2017; EN ISO 6579-1:2017)</i> HRN EN ISO 6579-1:2017/A1:2020 <i>(ISO 6579-1:2017/Amd1:2020; EN ISO 6579-1:2017/A1:2020)</i>
2.	Moždano tkivo divljih i domaćih životinja <i>Brain tissue of wild and domestic animals</i>	Imunofluorescentni test za dokaz virusa bjesnoće <i>Fluorescent antibody test for detection of rabies virus</i>	WOAH ⁽¹⁾ Manual of Diagnostic Tests and Vaccines for Terrestrial Animals Chapter Rabies SOP R-1-06
3.	Serumi goveda, svinja, ovaca i koza <i>Bovine, swine, sheep and goat sera</i>	Dijagnostička metoda Rose Bengal test <i>Diagnostic method Rose Bengal test</i>	WOAH ⁽¹⁾ Manual of Diagnostic Tests and Vaccines for Terrestrial Animals Chapter: Brucellosis (<i>Brucella abortus</i> , <i>B. melitensis</i> and <i>B. suis</i>) SOP R-1-15

⁽¹⁾ Fleksibilno područje akreditacije - dopuštena je primjena novih izdanja norma/vlastitih metoda za metode ispitivanja za koje nije označena godina/izdanje.

Flexible scope of accreditation - use of new editions of standards/In-house methods for test methods without indicated year of publication/edition is allowed.

Važeći popis akreditiranih metoda iz fleksibilnog područja akreditacije dostupan je na www.veinst.hr

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

VETERINARSKI ZAVOD RIJEKA
LABORATORIJ ZA MIKROBIOLOGIJU I ANALITIČKU KEMIJU
Podmurvice 29, HR-51000 Rijeka

Ispitivanje hrane, hrane za životinje i vode za ljudsku potrošnju
Testing of food, animal feeding stuffs and water for human consumption

Određivanje morskih biotoksina u tkivu školjkaša

Determination of marine biotoxins in shellfish

Određivanje električne vodljivosti u medu

Determination of electrical conductivity in honey

Određivanje histamina nastalog raspadom ribljeg mesa

Determination of histamine from fish meat decomposition

Utvrđivanje koncentracije TVB-N-a u ribama i ribljim proizvodima
Determination of the Concentration of TVB-N in fish and Fishery Products

**Ispitivanje ostataka veterinarskih lijekova u tkivima
i hrani životinjskog porijekla**

Testing of veterinary drug residues in tissues and food of animal origin

Određivanje ostataka trifenilmetan boja u ribi

Determination of Triphenylmethane Dyes in Fish using UHPLC-MS/MS method

Uzorkovanje hrane, hrane za životinje i okolišnih uzoraka u proizvodnji hrane
Sampling of food, animal feeding stuffs and environmental samples in food production

Br. No.	Materijali/Proizvodi <i>Materials/Products</i>	Vrsta ispitivanja/Svojstvo <i>Type of test/Property</i> Raspon/Range	Metoda ispitivanja <i>Test method</i>
1.	Hrana i hrana za životinje <i>Food and animal feeding stuffs</i> Okolišni uzorci u proizvodnji hrane <i>Environmental samples in food production</i>	Horizontalna metoda za dokazivanje prisutnosti, određivanje broja i serotipizaciju <i>Salmonella</i> -- 1. dio: Dokazivanje prisutnosti <i>Salmonella</i> spp. <i>Horizontal method for the detection, enumeration and serotyping of Salmonella -- Part 1: Detection of Salmonella spp.</i>	HRN EN ISO 6579-1:2017 <i>(ISO 6579-1:2017; EN ISO 6579-1:2017)</i> HRN EN ISO 6579-1:2017/A1:2020 <i>(ISO 6579-1:2017/Amd1:2020; EN ISO 6579-1:2017/A1:2020)</i>

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property <i>Raspon/Range</i>	Metoda ispitivanja Test method
2.	Hrana i hrana za životinje <i>Food and animal feeding stuffs</i>	Horizontalna metoda za dokazivanje prisutnosti i određivanje broja <i>Listeria monocytogenes</i> i drugih <i>Listeria spp.</i> -- 1. dio: Metoda dokazivanja prisutnosti <i>Horizontal method for the detection and enumeration of Listeria monocytogenes and other Listeria spp. -- Part 1: Detection method</i>	HRN EN ISO 11290-1:2017 <i>(ISO 11290-1:2017: EN ISO 11290-1:2017)</i>
3.	Okolišni uzorci u proizvodnji hrane <i>Environmental samples in food production</i>	Horizontalna metoda za dokazivanje prisutnosti i određivanje broja <i>Listeria monocytogenes</i> i drugih <i>Listeria spp.</i> -- 2. dio: Metoda određivanja broja <i>Horizontal method for the detection and enumeration of Listeria monocytogenes and of Listeria spp. -- Part 2: Enumeration method</i>	HRN EN ISO 11290-2:2017 <i>(ISO 11290-2:2017: EN ISO 11290-2:2017)</i>

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property <i>Raspon/Range</i>	Metoda ispitivanja Test method
4.	Hrana i hrana za životinje <i>Food and animal feeding stuffs</i>	Horizontalna metoda za određivanje broja mikroorganizama – Tehnike određivanja broja kolonija pri 30 °C <i>Horizontal method for the enumeration of microorganisms -- Colony count techniques at 30 °C</i>	<p>HRN EN ISO 4833-1:2013 <i>(ISO 4833-1:2013; EN ISO 4833-1:2013)</i></p> <p>HRN EN ISO 4833-1:2013/A1:2022 <i>(ISO 4833-1:2013/Amd 1:2022; EN ISO 4833-1:2013/A1:2022)</i></p> <p>HRN EN ISO 4833-2:2013 <i>(ISO 4833-2:2013; EN ISO 4833-2:2013)</i></p> <p>HRN EN ISO 4833-2:2013/Ispr.1:2014 <i>(ISO 4833-2:2013/Cor.1:2014; EN ISO 4833-2:2013/AC:2014)</i></p> <p>HRN EN ISO 4833-2:2013/A1:2022 <i>(ISO 4833-2:2013/Amd 1:2022; EN ISO 4833-2:2013/A1:2022)</i></p>
5.	Mikrobiologija u lancu hrane <i>Microbiology of food chain</i>	Horizontalna metoda određivanja broja koagulaza pozitivnih stafilocoka (<i>Staphylococcus aureus</i> i ostale vrste) – 1. dio: Postupak primjene Baird-Parker agara <i>Horizontal method for the enumeration of coagulase-positive staphylococci (Staphylococcus aureus and other species) - Part 1: Technique using Baird-Parker agar medium</i>	<p>HRN EN ISO 6888-1:2021 <i>(ISO 6888-1:2021; EN ISO 6888-1:2021)</i></p>

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property <i>Raspon/Range</i>	Metoda ispitivanja Test method
6.	Hrana i hrana za životinje <i>Food and animal feeding stuffs</i>	Metoda brojenja beta-glukuronidaza pozitivne <i>Escherichia coli</i> – 2. dio: Brojenje kolonija pri 44°C uporabom 5-bromo-4-chloro-3-indolyl beta-D-glucuronide <i>Horizontal method for the enumeration of beta-glucuronidase-positive Escherichia coli - Part 2: Colony-count technique at 44 °C using 5-bromo-4-chloro-3-indolyl beta-D-glucuronide</i>	HRN ISO 16649-2:2001 <i>(ISO 16649-2:2001)</i>
7.	Hrana i hrana za životinje <i>Food and animal feeding stuffs</i> Okolišni uzorci u proizvodnji hrane <i>Environmental samples in food production</i>	Horizontalna metoda za dokazivanje prisutnosti i određivanje broja <i>Enterobacteriaceae</i> – 2. dio: Postupak određivanja broja kolonija <i>Horizontal method for the detection and enumeration of Enterobacteriaceae – Part 2: Colony-count technique</i>	HRN EN ISO 21528-2:2017 <i>(ISO 21528-2:2017; EN ISO 21528-2:2017)</i>
8.	Hrana i hrana za životinje <i>Food and animal feeding stuffs</i> Živi školjkaši, bodljikaši, plaštenjaci i puževi i proizvodi ribarstva <i>Live bivalve molluscs, live echinoderms, live tunicates, live marine gastropods and fishery products</i>	Horizontalna metoda za brojenje beta-glukuronidaza-pozitivne <i>Escherichia coli</i> – 3. dio: Tehnika za dokazivanje prisutnosti i određivanje najvjerojatnijeg broja bakterija pomoću 5-brom-4-klor-3-indolil-beta-D-glukuronida <i>Horizontal method for the enumeration of beta-glucuronidase-positive Escherichia coli -- Part 3: Detection and most probable number technique using 5-bromo-4-chloro-3-indolyl-β-D-glucuronide</i>	HRN EN ISO 16649-3:2015 <i>(ISO 16649-3:2015, corrected version 2016-12-15; EN ISO 16649-3:2015)</i>
9.	Okolišni uzorci u proizvodnji hrane <i>Environmental samples in food production</i>	Horizontalne metode za postupke uzorkovanja s površine <i>Horizontal methods for surface sampling</i>	HRN EN ISO 18593:2019 <i>(ISO 18593:2018; EN ISO 18593:2018)</i>

Br. No.	Materijali/Proizvodi <i>Materials/Products</i>	Vrsta ispitivanja/Svojstvo <i>Type of test/Property</i> Raspon/Range	Metoda ispitivanja <i>Test method</i>
10.	Voda za ljudsku potrošnju <i>Water for human consumption</i>	Brojenje uzgojenih mikroorganizama – Broj kolonija naciepljivanjem na hranjivi agar <i>Enumeration of culturable microorganisms – Colony count by inoculation in a nutrient agar culture medium</i>	HRN EN ISO 6222:2000 <i>(ISO 6222:1999; EN ISO 6222:1999)</i>
11.		Detekcija i brojenje crijevnih eneterokoka – 2. Dio: Metoda membranske filtracije <i>Detection and enumeration of intestinal enterococci - Membrane filtration method</i>	HRN EN ISO 7899-2: 2000 <i>(ISO 7899-2:2000; EN ISO 7899-2:2000)</i>
12.		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 <i>(ISO 16266:2006; EN ISO 16266:2008)</i>
13.		Detekcija i brojenje <i>Escherichia coli</i> i koliformnih bakterija sustavom membranske filtracije <i>Detection and enumeration of Escherichia coli and coliform bacteria - Membrane filtration method</i>	HRN EN ISO 9308-1:2014 EN ISO 9308-1:2014/A1:2017 <i>(ISO 9308-1:2014 EN ISO 9308-1:2014)(ISO 9308-1:2014/Amd 1:2016; EN ISO 9308-1:2014/A1:2017)</i>
14.	Hrana i hrana za životinje <i>Food and animal feeding stuffs</i>	Brojanje kvasaca i plijesni u proizvodima koji imaju aktivitet vode manji, ili jednak, ili veći od 0,95 <i>Enumeration of yeasts and moulds in products with water activity less than, or equal to, or greater than 0,95</i>	HRN ISO 21527-1:2012 <i>(ISO 21527-1:2008)</i> HRN ISO 21527-2:2012 <i>(ISO 21527-2:2008)</i>

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range	Metoda ispitivanja Test method
15.	Hrana Food	Horizontalna metoda za dokazivanje i određivanje broja <i>Clostridium</i> spp. – 1.dio: Određivanje broja sulfireducirajućih <i>Clostridium</i> spp. tehnikom brojenja kolonija <i>Horizontal method for the detection and enumeration of Clostridium spp. – Part 1: Enumeration 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)
16.	Uzorkovanje hrane Food sampling	Postupci uzorkovanja za mikrobiološka ispitivanja uzoraka hrane i hrane za životinje <i>Sampling techniques for microbiological analysis of food and feed samples</i>	HRS CEN ISO/TS 17728:2015 (ISO/TS 17728:2015; CEN ISO/TS 17728:2015)
17.	Školjkaši Shellfish	Određivanje sadržaja domoične i epi-domoične kiseline (Amnesic shellfish poison – ASP) u tkivu školjkaša HPLC metodom <i>Determination of domoic and epi-domoic acid (Amnesic shellfish poison – ASP) in shellfish by HPLC method</i>	Quilliam et all. (1995), J. AOAC, 78, pp. 209-214
18.	Med Honey	Određivanje električne vodljivosti <i>Determination of electrical conductivity</i>	Harmonised methods of the International Honey Commission (2009), Method 2
19.	Mišićno tkivo/riba, krvna plazma, mlijeko, jaja, voda i med <i>Muscle tissue/ fish, plasma, milk, eggs, water and honey</i>	Određivanje nitroimidazola UHPLC/MS-MS metodom <i>Determination of nitroimidazoles using UHPLC-MS/MS method</i>	SOP R-3-89 N UHPLC-MS/MS Rev 03 2024-12-20

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range	Metoda ispitivanja Test method
20.	Riba i riblji proizvodi <i>Fish and fishery products</i>	Određivanje udjela hlapljivih amina – ukupni hlapljivi bazni dušik (TVB-N) <i>Determination of the volatile amines content – total volatile base nitrogen (TVB-N)</i>	Provedbena Uredba Komisije (EU) br. 2019/627 od 15.ožujka 2019., Prilog VI, poglavlje II, stavak C Commission Implementing Regulation (EU) No. 2019/627 of 15 March 2019, Annex VI, Chapter II, Part C
21.	Školjkaši <i>Shellfish</i>	Određivanje sadržaja lipofilnih biotoksina (LT) LC-MS/MS metodom (AZA-1,AZA-2, AZA-3, DTX-1, DTX-2, GYM, OA, ukupno OA skupina, PnTX-G, PTX-1, PTX2, SPX, YTX, hYTX, YTX-45-OH i YTX-h-45-OH) <i>Determination of lipophilic biotoxins (LT) by LC-MS/MS method</i> (AZA-1,AZA-2, AZA-3, DTX-1, DTX-2, GYM, OA, ukupno OA skupina, PnTX-G, PTX-1, PTX2, SPX, YTX, hYTX, YTX-45-OH i YTX-h-45-OH)	EU-RL-MB SOP <i>Lipophilic marine biotoxins LC-MS/MS Version 5, January 2015</i>
22.		Određivanje biotoksina koji uzrokuju paralizu (PSP) HPLC-FLD metodom (C1,2, dcGTX2,3, dcSTX, GTX1,4, GTX2,3, GTX5, NEO, STX C3,4, GTX6, dcNEO) <i>Determination of paralytic poisoning biotoxins (PSP) by HPLC-FLD method</i> (C1,2, dcGTX2,3, dcSTX, GTX1,4, GTX2,3, GTX5, NEO, STX, C3,4, GTX6, dcNEO)	HRN EN 14526:2017 (EN 14526:2017)
23.	Riba <i>Fish</i>	Određivanje trifenilmetan boja u ribi UHPLC-MS/MS metodom <i>Determination of Triphenylmethane Dyes in Fish using UHPLC-MS/MS method</i>	SOP R-3-95 Rev 01 2025-04-15

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range	Metoda ispitivanja Test method
24.	Riba i riblji proizvodi <i>Fish and fishery products</i>	Određivanje i kvantifikacija histamina u ribi i ribljim proizvodima HPLC metodom <i>Detection and quantification of histamine in fish and fishery products – HPLC method</i>	HRN EN ISO 19343:2017 (ISO 19343:2017; EN ISO 19343:2017)
25.	Hrana <i>Food</i>	Određivanje aktiviteta vode <i>Determination of water activity</i>	HRN ISO 18787:2020 (ISO 18787:2017)

VETERINARSKI ZAVOD SPLIT
LABORATORIJ ZA DIJAGNOSTIKU
Poljička cesta 33, HR-21000 Split

Horizontalna metoda za dokazivanje prisutnosti *Salmonella* spp.
Horizontal method for the detection of Salmonella spp.

Dokazivanje specifičnih protutijela za virus bolesti plavog jezika u ovaca, koza i goveda
Detection of BTV specific antibodies in sheep, goat and cattle

Dokazivanje specifičnih protutijela za brucelozu preživača i svinja
Detection of specific antibodies for ruminant and swine brucellosis

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>
1.	Jaja i uzorci iz primarne proizvodnje <i>Eggs and samples from primary production stage</i>	Horizontalna metoda za dokazivanje prisutnosti, određivanje broja i serotipizaciju <i>Salmonella</i> -- 1. dio: Dokazivanje prisutnosti <i>Salmonella</i> spp. <i>Horizontal method for the detection, enumeration and serotyping of Salmonella -- Part 1: Detection of Salmonella spp.</i>	HRN EN ISO 6579-1:2017 <i>(ISO 6579-1:2017; EN ISO 6579-1:2017)</i> HRN EN ISO 6579-1:2017/A1:2020 <i>(ISO 6579-1:2017/Amd1:2020; EN ISO 6579-1:2017/A1:2020)</i>
2.	Serumi goveda, svinja, ovaca i koza <i>Bovine, swine, sheep, and goat sera</i>	Dijagnostička metoda Rose Bengal test <i>Diagnostic method Rose Bengal test</i>	WOAH ⁽¹⁾ Manual of Diagnostic Tests and Vaccines for Terrestrial Animals Chapter Brucellosis (Brucella abortus, B. melitensis and B. suis) S-1-SOP-S-18

⁽¹⁾ Fleksibilno područje akreditacije - dopuštena je primjena novih izdanja norma/vlastitih metoda za metode ispitivanja za koje nije označena godina/izdanje.

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FLEKSIBILNO PODRUČJE AKREDITACIJE / FLEXIBLE SCOPE OF ACCREDITATION

Red. Br./ No	Oznaka/ Identification	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property	Tehnika/ Technique	Metoda ispitivanja/ Test method
<p>III- Biološki materijal Dijagnostika bolesti životinja (D) Plavi jezik (D1)</p> <p>III- Biological material Diagnostics of animal diseases (D) Blue tongue (D1)</p>					
1	III D1	Serumi preživača/ Ruminants sera	Dokazivanje specifičnih protutijela za virus bolesti plavog jezika <i>Detection of BTV specific antibodies</i>	ELISA	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>

Napomene / Notes: serumi preživača: ovace, koze i goveda/ruminants sera: sheep, goat and cattle

ELISA – Imunoenzimni test / *Immunoenzymatic test*

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.veinst.hr

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VETERINARSKI ZAVOD SPLIT
LABORATORIJ ZA MIKROBIOLOGIJU I ANALITIČKU KEMIJU
Poljička cesta 33, HR-21000 Split

Ispitivanje hrane, hrane za životinje i vode za piće
Testing of food, animal feeding stuffs and drinking water

Određivanje biogenih amina u hrani

Determination of biogenic amines in food

Određivanje morskih biotoksina u tkivu školjkaša

Determination of marine biotoxins in shellfish

**Ispitivanje ostataka veterinarskih lijekova
u tkivima, biološkim tekućinama i hrani**

Analysis of veterinary drugs residues in tissues, biological fluids and food

Određivanje okolišnih i procesnih kontaminanata u hrani

Determination of environmental and processing contaminants in food

Određivanje aditiva u hrani

Determination of additives in food

Senzorsko ocjenjivanje mesnih proizvoda

Sensory analyses of meat products

Uzorkovanje hrane, hrane za životinje i okolišnih uzoraka u proizvodnji hrane
Sampling of food, animal feeding stuffs and environmental samples in food production

Br. No.	Materijali/Proizvodi <i>Materials/Products</i>	Vrsta ispitivanja/Svojstvo <i>Type of test/Property</i> Raspon/Range	Metoda ispitivanja <i>Test method</i>
1.	Hrana i hrana za životinje <i>Food and animal feeding stuffs</i> Okolišni uzorci u proizvodnji hrane <i>Environmental samples in food production</i>	Horizontalna metoda za dokazivanje prisutnosti, određivanje broja i serotipizaciju <i>Salmonella</i> -- 1. dio: Dokazivanje prisutnosti <i>Salmonella</i> spp. <i>Horizontal method for the detection, enumeration and serotyping of Salmonella -- Part 1: Detection of Salmonella spp.</i>	HRN EN ISO 6579-1:2017 <i>(ISO 6579-1:2017; EN ISO 6579-1:2017)</i> HRN EN ISO 6579-1:2017/A1:2020 <i>(ISO 6579-1:2017/Amd1:2020; EN ISO 6579-1:2017/A1:2020)</i>

Br. No.	Materijali/Proizvodi <i>Materials/Products</i>	Vrsta ispitivanja/Svojstvo <i>Type of test/Property</i> Raspon/Range	Metoda ispitivanja <i>Test method</i>
2.	<p>Hrana i hrana za životinje <i>Food and animal feeding stuffs</i></p> <p>Okolišni uzorci u proizvodnji hrane <i>Environmental samples in food production</i></p>	<p>Horizontalna metoda za određivanje broja mikroorganizama - Tehnike određivanja broja kolonija pri 30°C <i>Horizontal method for the enumeration of microorganisms - Colony-count techniques at 30°C</i></p>	<p>HRN EN ISO 4833-1:2013 <i>(ISO 4833-1:2013; EN ISO 4833-1:2013)</i></p> <p>HRN EN ISO 4833-1:2013/A1:2022 <i>(ISO 4833-1:2013/Amd 1:2022; EN ISO 4833-1:2013/A1:2022)</i></p> <p>HRN EN ISO 4833-2:2013 <i>(ISO 4833-2:2013; EN ISO 4833-2:2013)</i></p> <p>HRN EN ISO 4833-2:2013/Ispr.1:2014 <i>(ISO 4833-2:2013/Cor.1:2014; EN ISO 4833-2:2013/AC:2014)</i></p> <p>HRN EN ISO 4833-2:2013/A1:2022 <i>(ISO 4833-2:2013/Amd 1:2022; EN ISO 4833-2:2013/A1:2022)</i></p>
3.		<p>Horizontalna metoda za dokazivanje prisutnosti i određivanje broja <i>Enterobacteriaceae</i> – 2. dio: Postupak određivanja broja kolonija <i>Horizontal method for the detection and enumeration of Enterobacteriaceae -- Part 2: Colony-count technique</i></p>	<p>HRN EN ISO 21528-2:2017 <i>(ISO 21528-2:2017; EN ISO 21528-2:2017)</i></p>

Br. No.	Materijali/Proizvodi <i>Materials/Products</i>	Vrsta ispitivanja/Svojstvo <i>Type of test/Property</i> Raspon/Range	Metoda ispitivanja <i>Test method</i>
4.	<p>Hrana i hrana za životinje <i>Food and animal feeding stuffs</i></p> <p>Okolišni uzorci u proizvodnji hrane <i>Environmental samples in food production</i></p>	<p>Horizontalna 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-glucorinide <i>Horizontal method for the enumeration of beta-glucuronidase-positive Escherichia coli -- Part 2: Colony-count technique at 44 °C using 5-bromo-4-chloro-3-indolyl beta-D-glucuronide</i></p>	<p>HRN ISO 16649-2:2001 <i>(ISO 16649-2:2001)</i></p>
5.		<p>Horizontalna metoda za dokazivanje prisutnosti i određivanje broja <i>Listeria monocytogenes</i> i drugih <i>Listeria spp.</i>- Dio 1.: Metoda dokazivanja prisutnosti <i>Horizontal method for the detection and enumeration of Listeria monocytogenes and other Listeria spp. – Part 1: Detection method</i></p>	<p>HRN EN ISO 11290-1:2017 <i>(ISO 11290-1:2017; EN ISO 11290-1:2017)</i></p>
6.		<p>Horizontalna metoda za dokazivanje prisutnosti i određivanje broja <i>Listeria monocytogenes</i> i drugih <i>Listeria spp.</i> - Dio 2.: Metoda određivanja broja <i>Horizontal method for the detection and enumeration of Listeria monocytogenes – Part 2: Enumeration method</i></p>	<p>HRN EN ISO 11290-2:2017 <i>(ISO 11290-2:2017; EN ISO 11290-2:2017)</i></p>

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property <i>Raspon/Range</i>	Metoda ispitivanja Test method
7.	<p>Hrana i hrana za životinje <i>Food and animal feeding stuffs</i></p> <p>Živi školjkaši, bodljikaši, plaštenjaci, puževi i proizvodi ribarstva <i>Food and animal feeding stuffs</i> <i>Live bivalve molluscs, live echinoderms, live tunicates, live marine gastropods and fishery products</i></p>	<p>Horizontalna metoda za brojenje beta-glukuronidaza-pozitivne <i>Escherichia coli</i> - 3. dio: Tehnika za dokazivanje prisutnosti i određivanje najvjerojatnijeg broja bakterija pomoću 5-brom-4-klor-3-indolil-beta-D-glukuronida <i>Horizontal method for the enumeration of beta-glucuronidase-positive Escherichia coli - Part 3: Detection and most probable number technique using 5-bromo-4-chloro-3-indolyl-β-D-glucuronide</i></p>	<p>HRN EN ISO 16649-3:2015 <i>(ISO 16649-3:2015, corrected version 2016-12-15; EN ISO 16649-3:2015)</i></p>
8.	<p>Voda za ljudsku potrošnju <i>Water for human consumption</i></p>	<p>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></p>	<p>HRN EN ISO 6222:2000 <i>(ISO 6222:1999; EN ISO 6222:1999)</i></p>
9.	<p>Mikrobiologija u lancu hrane <i>Microbiology of food chain</i></p>	<p>Horizontalna metoda određivanja broja koagulaza pozitivnih stafilokoka (<i>Staphylococcus aureus</i> i ostale vrste) – 1. dio: Postupak primjene Baird-Parker agara <i>Horizontal method for the enumeration of coagulase-positive staphylococci (Staphylococcus aureus and other species) - Part 1: Technique using Baird-Parker agar medium</i></p>	<p>HRN EN ISO 6888-1:2021 <i>(ISO 6888-1:2021; EN ISO 6888-1:2021)</i></p>

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property <i>Raspon/Range</i>	Metoda ispitivanja Test method
10.	Hrana Food	Horizontalna metoda za dokazivanje i određivanje broja <i>Clostridium</i> spp. – 1.dio: Određivanje broja sulfitreducirajućih <i>Clostridium</i> spp. tehnikom brojenja kolonija <i>Horizontal method for the detection and enumeration of Clostridium spp. – Part 1: Enumeration of sulfite-reducing Clostridium spp. by colony count technique</i>	HRN EN ISO 15213-1:2023 (<i>ISO 15213-1:2023; EN ISO 15213-1:2023</i>)
11.	Uzorkovanje hrane Food sampling	Mikrobiologija lanca hrane – Postupci uzorkovanja za mikrobiološka ispitivanja uzoraka hrane i hrane za životinje <i>Microbiology of the food chain – Sampling techniques for microbiological analysis of food and feed samples</i>	HRS CEN ISO/TS 17728:2015 (<i>ISO/TS 17728:2015; CEN ISO/TS 17728:2015</i>)
12.	Okolišni uzorci u proizvodnji hrane Environmental samples in food production	Horizontalne metode za postupke uzorkovanja s površine <i>Horizontal methods for surface sampling</i>	HRN EN ISO 18593:2019 (<i>ISO 18593:2018; EN ISO 18593:2018</i>)
13.	Voda za ljudsku potrošnju Water for human consumption	Brojenje <i>Escherichia coli</i> i koliformnih bakterija – 1. dio: Metoda membranske filtracije za vode s niskom pozadinom bakterijske flore <i>Enumeration of Escherichia coli and coliform bacteria – Part 1: Membrane filtration method for waters with low bacterial background flora</i>	HRN EN ISO 9308- 1:2014 (<i>ISO 9308-1:2014; EN ISO 9308-1:2014</i>) HRN EN ISO 9308- 1:2014/A1:2017 (<i>ISO 9308-1:2014/Amd1:2016; EN ISO 9308-1:2014/A1:2017</i>)
14.		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 (<i>ISO 7899-2:2000; EN ISO 7899-2:2000</i>)

Br. No.	Materijali/Proizvodi <i>Materials/Products</i>	Vrsta ispitivanja/Svojstvo <i>Type of test/Property</i> Raspon/Range	Metoda ispitivanja <i>Test method</i>
15.	Meso i mesni proizvodi <i>Meat and meat products</i>	Određivanje količine dušika i bjelančevina <i>Determination of the nitrogen content and crude protein content</i>	HRN ISO 937:1999 <i>(ISO 937:1978)</i>
16.		Određivanje količine hidroksiprolina <i>Determination of hydroxyproline content</i>	HRN ISO 3496:1999 <i>(ISO 3496:1994)</i>
17.	Riba i riblji proizvodi <i>Fish and fishery products</i>	Određivanje udjela hlapljivih amina – ukupni hlapljivi bazni dušik (TVB-N) <i>Determination of the volatile amines content – total volatile base nitrogen (TVB-N)</i>	Provedbena Uredba Komisije (EU) br. 2019/627 od 15.ožujka 2019., Prilog VI, poglavlje II, stavak C Commission Implementing Regulation (EU) No. 2019/627 of 15 March 2019, Annex VI, Chapter II, Part C
18.	Suhomesnati proizvodi <i>Cured meat products</i>	Senzorska ocjena suhomesnatih proizvoda* <i>Sensory analysis of cured meat products*</i>	S-3-SOP-126 Rev 02 2022-04-20
19.	Meso i mesni proizvodi <i>Meat and meat products</i>	Određivanje udjela vode <i>Determination of moisture content</i>	ISO 1442:2023
20.	Hrana i hrana za životinje <i>Food and animal feeding stuffs</i>	Određivanje aktiviteta vode <i>Determination of water activity</i>	HRN ISO 18787:2020 <i>(ISO 18787: 2017)</i>
21.	Meso i mesni proizvodi <i>Meat and meat products</i> Riba i riblji proizvodi <i>Fish and fishery products</i>	Određivanje sadržaja klorida <i>Determination of chloride content</i>	ISO 1841-1:1996 Part 1 S-3-SOP-49 (A i B) Rev 03 2016-04-01
22.	Hrana <i>Food</i>	Određivanje sadržaja sumpor dioksida- sulfita (E220-E228) Monier-Williams metodom <i>Determination of sulphur dioxide – sulphites Monier-Williams method</i>	AOAC Official method 990.28, Final Action 1994

Br. No.	Materijali/Proizvodi <i>Materials/Products</i>	Vrsta ispitivanja/Svojstvo <i>Type of test/Property</i> Raspon/Range	Metoda ispitivanja <i>Test method</i>
23.	Hrana <i>Food</i>	Određivanje nitrata (E249-E250; NO ₃) i nitrita (E251-E252) tekućinskom kromatografijom <i>Determination of nitrates and nitrites using LC with DAD detection</i>	S-3-SOP-155 Rev 01 2017-09-06
24.	Hrana i hrana za životinje <i>Food and animal feeding stuffs</i>	Određivanje kolagena, bjelančevina mesa, omjera kolagena i bjelančevina mesa <i>Determination of collagen, meat protein and collagen/meat protein ratio</i>	HRN ISO 937:1999 (ISO 937:1978) HRN ISO 3496:1999 (ISO 3496:1994) S-3-SOP-76 Rev 02 2019-02-19

* **Prema potrebi se koriste ugovoreni prostori na lokaciji Kamila Tončića 4, 21000 Split**

* *Facilities at addresss Kamila Tončića 4, 21000 Split are used if needed*

FLEKSIBILNO PODRUČJE AKREDITACIJE / FLEXIBLE SCOPE OF ACCREDITATION

Red. Br./ No	Oznaka/ Identification	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property	Tehnika/ Technique	Metoda ispitivanja/ Test method
<p>I - Hrana</p> <p>III- Biološki materijal</p> <p>Farmakološki aktivne tvari (B) Kortikosteroidi (B1), Antihelmintici – Avermektini (B2)</p> <p>Kontaminanti (C) Policiklički aromatski ugljikovodici (C1), Kemijski elementi (C2): AAS – GFAAS (C2-1), GHS-FIAS (C2-2), Akrilamid (C3), Biogeni amini (C4), Biotoksini (C5): LC-DAD (C5-1); LC-FLD (C5-2); LC-MS/MS (C5-3)</p> <p>Kvaliteta (E) Ugljikohidrati (E1)</p> <p>I - Food</p> <p>III- Biological material</p> <p>Pharmacologically active substances (B) Corticosteroids (B1), Antihelmintics- Avermectins (B2)</p> <p>Contaminants (C) Polycyclic aromatic hydrocarbons (C1), Chemical elements (C2): AAS – GFAAS (C2-1), GHS-FIAS (C2-2) , Acrylamide (C3), Biogenic amines (C4), Biotoxins (C5): LC-DAD (C5-1); LC-FLD (C5-2); LC-MS/MS (C5-3)</p> <p>Quality (E) Carbohydrates (E1)</p>					

Red. Br./ No	Oznaka/ Identification	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property	Tehnika/ Technique	Metoda ispitivanja/ Test method
Farmakološki aktivne tvari (B) Corticosteroids (B1) <i>Pharmacologically active substances (B) Corticosteroids (B1)</i>					
1.	I B1	Hrana životinjskog podrijetla <i>Food of animal origin</i>	Određivanje kortikosteroida <i>Determination of corticosteroids</i>	LC-MS/MS	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>
2.	III B1	Biološki materijal <i>Biological material</i>	Određivanje kortikosteroida <i>Determination of corticosteroids</i>	LC-MS/MS	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>
Farmakološki aktivne tvari (B) Antihelmintici-Avermektini (B2) <i>Pharmacologically active substances (B) Antihelmintics- Avermectins (B2)</i>					
3.	I B2	Hrana životinjskog podrijetla <i>Food of animal origin</i>	Određivanje Antihelmintika-Avermektini <i>Determination of Antihelmintics-Avermectins</i>	LC -FLD	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>
Kontaminanti (C) Policiklički aromatski ugljikovodici (C1) <i>Contaminants (C) Polycyclic aromatic hydrocarbons (C1)</i>					

Red. Br./ No	Oznaka/ Identification	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property	Tehnika/ Technique	Metoda ispitivanja/ Test method
4.	I C1	Hrana biljnog i životinjskog podrijetla <i>Food of plant and animal origin</i>	Određivanje sadržaja policikličkih aromatskih ugljikovodika <i>Determination of polycyclic aromatic hydrocarbons</i>	LC -FLD	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>
Kontaminanti (C) Kemijski elementi (C2): AAS - GFAAS (C2-1), GHS-FIAS (C2-2) <i>Contaminants (C) Chemical elements (C2): AAS - GFAAS (C2-1), GHS-FIAS(C2-2)</i>					
5.	I C2	Hrana biljnog i životinjskog podrijetla <i>Food of plant and animal origin</i>	Određivanje metala <i>Determination of metals</i>	GFAAS GHS-FIAS	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>
Kontaminanti (C) Akrilamid (C3) <i>Contaminants (C) Acrylamide (C3)</i>					
6.	I C3	Hrana biljnog i životinjskog podrijetla <i>Food of plant and animal origin</i>	Određivanje akrilamida <i>Determination of Acrylamide</i>	LC-MS/MS	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>
Kontaminanti (C) Biogeni amini (C4) <i>Contaminants (C) Biogenic amines (C4)</i>					
7.	I C4	Hrana biljnog i životinjskog podrijetla <i>Food of plant and animal origin</i>	Određivanje biogenih amina (histamina) u hrani <i>Determination of biogenic amines (histamine) in food</i>	LC-DAD	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>
Kontaminanti (C) Biotoksini (C5): LC-DAD (C5-1); LC-FLD (C5-2); LC-MS/MS (C5-3) <i>Contaminants (C) Biotoxins (C5): LC-DAD (C5-1); LC-FLD (C5-2); LC-MS/MS (C5-3)</i>					

8.	1C5	Hrana životinjskog podrijetla <i>Food of animal origin</i>	Određivanje biotoksina <i>Determination of biotoxins</i>	LC-DAD LC-FLD LC-MS/MS	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>
Kvaliteta (E) Ugljikohidrati (E1) <i>Quality (E) Carbohydrates (E1)</i>					
9.	1E1	Hrana biljnog i životinjskog podrijetla <i>Food of plant and animal origin</i>	Određivanje šećera u hrani <i>Determination of carbohydrates in food</i>	LC-RI	Prema popisu metoda dostupnom na www.veinst.hr <i>According to the list of methods available at www.veinst.hr</i>

Napomene / Notes:

- LC-MS/MS: tekućinska kromatografija i višestruka spektrometrija masa (*engl. Liquid chromatography–tandem mass spectrometry, LC-MS/MS*)
- LC –FLD: tekućinska kromatografija s flourometrijskom detekcijom (*engl. Liquid chromatography–flourescence detection, LC-FLD*)
- LC-DAD, tekućinska kromatografija uz dokazivanje nizom dioda (*engl. Liquid chromatography–diode array detection, LC-DAD*)
- LC-RI: tekućinska kromatografija uz detektor indeksa loma (*engl. Liquid chromatography–Refractive index detector*)
- GFAAS: grafitna tehnika atomske apsorpcione spektrometrije (*engl. Graphite furnace technique, GFAAS*)
- GHS-FIAS: atomska apsorpciona spektrometrija-hidridna tehnika (*engl. Gaseous hydrides flow injection analysis system, GHS-FIAS*)

Fleksibilnim područjem akreditacije dopušta se laboratoriju primjena metoda ispitivanja na materijale/proizvode, vrstu ispitivanja/svojestvo 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.veinst.hr

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

VETERINARSKI ZAVOD VINKOVCI
LABORATORIJ ZA DIJAGNOSTIKU
J. Kozarca 24, HR-32100 Vinkovci

Serološka dijagnostika zaraznih bolesti životinja
Serological examination of contagious animal diseases
Umjetna probava skupnih uzoraka uz korištenje magnetske mješalice za dokazivanje
ličinki iz roda *Trichinella*

*Magnetic stirrer method for pooled sample digestion for detection of
Trichinella larvae*

Izdvajanje *Salmonella* spp. iz jaja i fecesa peradi
*Detection of *Salmonella* spp. from eggs and faeces of poultry*

Dokazivanje DNK virusa afričke svinjske kuge
Detection DNA of african swine fever virus

Br. No.	Materijali/Proizvodi <i>Materials/Products</i>	Vrsta ispitivanja/Svojstvo <i>Type of test/Property</i> Raspon/Range	Metode ispitivanja <i>Test method</i>
1.	Jaja i uzorci iz primarne proizvodnje <i>Eggs and Samples from the primary production</i>	Horizontalna metoda za dokazivanje prisutnosti, određivanje broja i serotipizaciju <i>Salmonella</i> -- 1. dio: Dokazivanje prisutnosti <i>Salmonella</i> spp. <i>Horizontal method for the detection, enumeration and serotyping of Salmonella -- Part 1: Detection of Salmonella spp.</i>	HRN EN ISO 6579-1:2017 <i>(ISO 6579-1:2017; EN ISO 6579-1:2017)</i> HRN EN ISO 6579-1:2017/A1:2020 <i>(ISO 6579-1:2017/Amd1:2020; EN ISO 6579-1:2017/A1:2020)</i>
2.	Mišićno tkivo <i>Muscle tissue</i>	Otkrivanje ličinki <i>Trichinella</i> spp. metodom umjetne probave <i>Detection of Trichinella spp. larvae by artificial digestion</i>	HRN EN ISO 18743:2015 <i>(ISO 18743:2015; EN ISO 18743:2015)</i> HRN EN ISO 18743:2015/A1:2023 <i>(ISO 18743:2015/Amd1:2023; EN ISO 18743:2015/A1:2023)</i>
3.	Serumi goveda, svinja, ovaca i koza <i>Bovine, swine, sheep and goat sera</i>	Dijagnostička metoda Rose Bengal test <i>Diagnostic method Rose Bengal test</i>	WOAH ⁽¹⁾ Manual of Diagnostic Tests and Vaccines for Terrestrial Animals Chapter: Brucellosis (<i>Brucella abortus</i> , <i>B. melitensis</i> and <i>B. suis</i>) SOP V-1-04

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range	Metode ispitivanja Test method
4.	Serum svinja Swine sera	Dokazivanje specifičnih protutijela za virus klasične svinjske kuge <i>Detection of specific antibodies against classical swine fever virus</i>	WOAH ⁽¹⁾ Manual of Diagnostic Tests and Vaccines for Terrestrial Animals Chapter Classical swine fever SOP V-1-40
5.	Krvni serum goveda Bovine blood sera	Imunoenzimni test za dokazivanje protutijela za virus enzootske leukoze goveda (probirni test) <i>ELISA for detection of antibodies for enzootic leukosis virus (screening test)</i>	WOAH ⁽¹⁾ Manual of Diagnostic Tests and Vaccines for Terrestrial Animals Chapter Enzootic bovine leucosis SOP V-1-41
6.	Izolati DNK DNA Isolates	Dokazivanje DNK virusa afričke svinjske kuge (qPCR) <i>Detection of ASF specific DNA (qPCR)</i>	WOAH ⁽¹⁾ Manual of Diagnostic Tests and Vaccines for Terrestrial Animals Chapter African swine fever SOP V-1-59 prilog 1

⁽¹⁾ Fleksibilno područje akreditacije - dopuštena je primjena novih izdanja norma/vlastitih metoda za metode ispitivanja za koje nije označena godina/izdanje.

Flexible scope od accreditation - use of new editions of standards/In-house methods for test methods without indicated year of publication/edition is allowed.

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VETERINARSKI ZAVOD VINKOVCI
LABORATORIJ ZA MIKROBIOLOGIJU I ANALITIČKU KEMIJU
J. Kozarca 24, HR-32100 Vinkovci

Ispitivanje hrane, hrane za životinje, vode za ljudsku potrošnju i otpadnih voda
Testing of food, animal feeding stuffs, water for human consumption and waste water

Uzorkovanje hrane, hrane za životinje, voda i okolišnih uzoraka u proizvodnji hrane
Sampling of food, animal feeding stuffs, waters and environmental samples in food production

Br. No.	Materijali/Proizvodi <i>Materials/Products</i>	Vrsta ispitivanja/Svojstvo <i>Type of test/Property</i> <i>Raspon/Range</i>	Metode ispitivanja <i>Test method</i>
1.		Horizontalna metoda za dokazivanje prisutnosti, određivanje broja i serotipizaciju <i>Salmonella</i> -- 1. dio: Dokazivanje prisutnosti <i>Salmonella</i> spp. <i>Horizontal method for the detection, enumeration and serotyping of Salmonella -- Part 1: Detection of Salmonella spp.</i>	HRN EN ISO 6579-1:2017 <i>(ISO 6579-1:2017; EN ISO 6579-1:2017)</i> HRN EN ISO 6579-1:2017/A1:2020 <i>(ISO 6579-1:2017/Amd1:2020; EN ISO 6579-1:2017/A1:2020)</i>
2.	Hrana i hrana za životinje <i>Food and animal feeding stuffs</i> Okolišni uzorci u proizvodnji hrane <i>Environmental samples in food production</i>	Horizontalna metoda za dokazivanje prisutnosti i određivanje broja <i>Listeria monocytogenes</i> i drugih <i>Listeria</i> spp. -- 1. dio: Metoda dokazivanja prisutnosti <i>Horizontal method for the detection and enumeration of Listeria monocytogenes and other Listeria spp. -- Part 1: Detection method</i>	HRN EN ISO 11290-1:2017 <i>(ISO 11290-1:2017; EN ISO 11290-1:2017)</i>
3.		Horizontalna metoda za dokazivanje prisutnosti i određivanje broja <i>Listeria monocytogenes</i> i drugih <i>Listeria</i> spp. -- 2. dio: Metoda određivanja broja <i>Horizontal method for the detection and enumeration of Listeria monocytogenes and of Listeria spp. -- Part 2: Enumeration method</i>	HRN EN ISO 11290-2:2017 <i>(ISO 11290-2:2017; EN ISO 11290-2:2017)</i>

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property <i>Raspon/Range</i>	Metode ispitivanja Test method
4.		Horizontalna metoda za određivanje broja mikroorganizama – Tehnike određivanja broja kolonija pri 30 °C <i>Horizontal method for the enumeration of microorganisms -- Colony count techniques at 30 °C</i>	HRN EN ISO 4833-1:2013 <i>(ISO 4833-1:2013; EN ISO 4833-1:2013)</i> HRN EN ISO 4833-1:2013/A1:2022 <i>(ISO 4833-1:2013/Amd 1:2022; EN ISO 4833-1:2013/A1:2022)</i>
5.	Hrana i hrana za životinje <i>Food and animal feeding stuffs</i> Okolišni uzorci u proizvodnji hrane <i>Environmental samples in food production</i>	Horizontalna metoda za određivanje broja mikroorganizama – Tehnike određivanja broja kolonija pri 30 °C <i>Horizontal method for the enumeration of microorganisms -- Colony count techniques at 30 °C</i>	HRN EN ISO 4833-2:2013 <i>(ISO 4833-2:2013; EN ISO 4833-2:2013)</i> HRN EN ISO 4833-2:2013/Ispr.1:2014 <i>(ISO 4833-2:2013/Cor.1:2014; EN ISO 4833-2:2013/AC:2014)</i> HRN EN ISO 4833-2:2013/A1:2022 <i>(ISO 4833-2:2013/Amd 1:2022; EN ISO 4833-2:2013/A1:2022)</i>
6.		Horizontalna metoda za dokazivanje prisutnosti i određivanje broja <i>Enterobacteriaceae</i> – 2. dio: Postupak određivanja broja kolonija <i>Horizontal method for the detection and enumeration of Enterobacteriaceae – Part 2: Colony-count technique</i>	HRN EN ISO 21528-2:2017 <i>(ISO 21528-2:2017; EN ISO 21528-2:2017)</i>

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range	Metode ispitivanja Test method
7.	Hrana i hrana za životinje Food and animal feeding stuffs	Metoda brojenja beta-glukuronidaza pozitivne <i>Escherichia coli</i> – 2. dio: Brojenje kolonija pri 44 °C uporabom 5-bromo-4-chloro-3-indolyl beta-D-glucuronide <i>Horizontal method for the enumeration of beta-glucuronidase-positive Escherichia coli - Part 2: Colony-count technique at 44 °C using 5-bromo-4-chloro-3-indolyl beta-D-glucuronide</i>	HRN ISO 16649-2:2001 (ISO 16649-2:2001)
8.	Voda za ljudsku potrošnju Water for human consumption	Brojenje <i>Escherichia coli</i> i koliformnih bakterija – 1. dio: Metoda membranske filtracije za vode s niskom pozadinom bakterijske flore <i>Enumeration of Escherichia coli and coliform bacteria – Part 1: Membrane filtration method for waters with low bacterial background flora</i>	HRN EN ISO 9308-1:2014 + EN ISO 9308-1:2014/A1:2017 (ISO 9308-1:2014; EN ISO 9308-1:2014) + (ISO 9308-1:2014/AMd 1:2016; EN ISO 9308-1:2014/A1:2017)
9.		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)
10.		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)

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11.		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 <i>(ISO 16266:2006; EN ISO 16266:2008)</i>
12.	Mikrobiologija u lancu hrane <i>Microbiology of the food chain</i>	Horizontalna metoda određivanja broja koagulaza pozitivnih stafilocoka <i>(Staphylococcus aureus</i> i ostale vrste) – 1. dio: Postupak primjene Baird- Parker agara <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 <i>(ISO 6888-1:2021; EN ISO 6888-1:2021)</i>
13.	Hrana <i>Food</i>	Horizontalna metoda za dokazivanje i određivanje broja <i>Clostridium</i> spp. – 1.dio: Određivanje broja sulfitreducirajućih <i>Clostridium</i> spp. tehnikom brojenja kolonija <i>Horizontal method for the detection and enumeration of Clostridium spp. – Part 1: Enumeration of sulfite-reducing Clostridium spp. by colony count technique</i>	HRN EN ISO 15213-1:2023 <i>(ISO 15213-1:2023; EN ISO 15213-1:2023)</i>

Br. No.	Materijali/Proizvodi <i>Materials/Products</i>	Vrsta ispitivanja/Svojstvo <i>Type of test/Property</i> Raspon/Range	Metode ispitivanja <i>Test method</i>
14.	Hrana i hrana za životinje Food and animal feeding stuffs	Horizontalna metoda za brojenje kvasca i plijesni – 1. dio: Tehnika brojenja kolonija u proizvodima s aktivitetom vode većim od 0,95 <i>Horizontal method for the enumeration of yeasts and moulds -- Part 1: Colony count technique in products with water activity greater than 0,95</i>	HRN ISO 21527-1:2012 <i>(ISO 21527-1:2008)</i>
15.	Hrana i hrana za životinje Food and animal feeding stuffs	Horizontalna metoda za brojenje kvasca i plijesni – 2. dio: Tehnika brojenja kolonija u proizvodima s aktivitetom vode manjim ili jednakom 0,95 <i>Horizontal method for the enumeration of yeasts and moulds -- Part 2: Colony count technique in products with water activity less than or equal to 0,95</i>	HRN ISO 21527-2:2012 <i>(ISO 21527-2:2008)</i>
16.	Uzorkovanje hrane Food sampling	Postupci uzorkovanja za mikrobiološka ispitivanja uzoraka hrane i hrane za životinje <i>Microbiology of the food chain – Sampling techniques for microbiological analysis of food and feed samples</i>	HRS CEN ISO/TS 17728:2015 <i>(ISO/TS 17728:2015; CEN ISO/TS 17728:2015)</i>
17.	Okolišni uzorci u proizvodnji hrane Environmental samples in food production	Horizontalne metode za postupke uzorkovanja s površine <i>Horizontal methods for surface sampling</i>	HRN EN ISO 18593:2019 <i>(ISO 18593:2018; EN ISO 18593:2018)</i>
18.	Mikrobiologija lanca hrane Microbiology of the food chain	Uzorkovanje životinjskih trupova za mikrobiološku analizu <i>Carcass sampling for microbiological analysis</i>	HRN EN ISO 17604:2015 <i>(ISO 17604:2015; EN ISO 17604:2015)</i>

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range	Metode ispitivanja Test method
19.		<p>Određivanje permanganatnog indeksa <i>Determination of permanganate indeks</i></p> <p>Granica kvantifikacije/ <i>Quantification limit</i> 0,5 mg O₂/L</p>	<p>HRN EN ISO 8467:2001 <i>(ISO 846:1993;</i> <i>EN ISO 8467:1995)</i></p>
20.	<p>Voda za ljudsku potrošnju i otpadna voda <i>Water for human consumption and waste water</i></p>	<p>Određivanje klorida - Volumetrijska metoda sa srebrnim nitratom uz kromatni indikator (Mohrova metoda) <i>Determination of chloride – Silver titration with chromate indicator (Mohr's method)</i></p> <p>Granica kvantifikacije/ <i>Quantification limit</i> 3 mg/L</p>	<p>HRN ISO 9297:1998 <i>(ISO 9297:1989)</i></p>
21.		<p>Određivanje pH vrijednosti <i>Determination of pH</i> 4-10</p>	<p>HRN EN ISO 10523:2012 <i>(ISO 10523:2008</i> <i>EN ISO 10523:2012)</i></p>
22.	<p>Voda za ljudsku potrošnju <i>Water for human consumption</i></p>	<p>Određivanje električne vodljivosti <i>Determination of electrical conductivity</i></p> <p>Granica kvantifikacije/ <i>Quantification limit</i> 0,1 mS/cm do/ to 199mS/cm</p>	<p>HRN EN 27888:2008 <i>(ISO 7888:1985;</i> <i>EN 27888:1993)</i></p>

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range	Metode ispitivanja Test method
23.	Otpadna voda Waste water	<p>Određivanje indeksa kemijske potrošnje kisika (KPK) – Metoda s malim zatvorenim epruvetama</p> <p><i>Water quality – Determination of the chemical oxygen demand indeks (ST-COD) – Small-scale sealed-tube method</i></p> <p>Granica Kvantifikacije/ Quantification limit 15 mg O₂/L</p>	HRN ISO 15705:2003 (ISO 15705:2002)
24.	Meso i mesni proizvodi Meat and meat products	<p>Određivanje udjela vode Determination of moisture content</p>	ISO 1442:2023
25.	Hrana i stočna hrana Food and animal feeding stuffs	<p>Određivanje aktiviteta vode Determination of water activity</p>	HRN ISO 18787:2020 (ISO 18787:2017)
26.	Voda za ljudsku potrošnju Water for human consumption	<p>Uzorkovanje Sampling</p>	HRN ISO 5667-5:2011 (ISO 5667-5:2006) HRN EN ISO 19458:2008; (ISO 19458:2006; EN ISO 19458:2006)
27.	Otpadna voda Waste water	<p>Uzorkovanje Sampling</p>	HRN ISO 5667-10:2020 (ISO 5667-10:2020)
28.	Hrana Food	<p>Određivanje udjela zasićenih masnih kiselina metodom plinske kromatografije s FID detekcijom Determination of saturated fatty acids by gas chromatography method with FID detector</p>	SOP V-3-122 Rev 01 2017-11-02
29.	Hrana Food	<p>Određivanje masti po Soxhlet-u Determination of fat - Soxhlet method</p>	SOP V-3-133 Rev 00 2019-04-29

Br. No.	Materijali/Proizvodi <i>Materials/Products</i>	Vrsta ispitivanja/Svojstvo <i>Type of test/Property</i> Raspon/Range	Metode ispitivanja <i>Test method</i>
30.	Hrana <i>Food</i>	Određivanje bjelančevina po Kjeldahl-u <i>Determination of protein - Kjeldahl method</i>	SOP V-3-134 Rev 00 2019-05-02
31.	Hrana <i>Food</i>	Određivanje šećera po Luff Schoorl-u <i>Determination of sugars - Luff Schoorl method</i>	SOP V-3-135 Rev 00 2019-05-09
32.	Hrana <i>Food</i>	Određivanje NaCl (soli) po Mohr-u <i>Determination of salts - Mohr method</i>	SOP V-3-136 Rev 00 2019-05-13