



Potvrda o akreditaciji Accreditation Certificate

Ovime se utvrđuje da je
This is to recognize that

HRVATSKA AGENCIJA ZA POLJOPRIVREDU I HRANU
Ulica kardinala Alojzija Stepinca 17, HR-31000 Osijek
Centar za vinogradarstvo, vinarstvo i uljarstvo
Odjel - laboratorij za fizikalno kemijska ispitivanja
Odjel - laboratorij za senzorna ispitivanja
Gorice 68b, 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

Fizikalno kemijska ispitivanja mošta, vina, voćnih vina, aromatiziranih proizvoda od vina, jakih alkoholnih pića, maslinovih ulja i ostalih biljnih ulja te senzorna ispitivanja vina, voćnih vina, aromatiziranih proizvoda od vina i jakih alkoholnih pića
Physicochemical testing of must, wine, fruit wines, aromatised wine products, spirit drinks, olive oils and other vegetables oils and sensory testing of wine, fruit wines, aromatised wine products and spirit drinks

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.: 1022
Klasa/Ref.No.: 383-02/22-30/024
Urbroj/Id.No.: 569-02/4-26-14
Zagreb, 2026-03-31

Akreditacija istječe-Accreditation expiry: 2027-12-17
Prva akreditacija-Initial accreditation: 2002-12-30

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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: 1022

Annex to Accreditation Certificate Number:

Klasa/Ref. No.: 383-02/22-30/024

Urbroj/Id. No.: 569-02/4-26-13

Datum izdanja priloga /Annex Issued on: 2026-03-31

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

Akreditacija istječe: 2027-12-17

Accreditation expiry:

Prva akreditacija: 2002-12-30

Initial accreditation:

Akreditirani laboratorij

Accredited Laboratory

Hrvatska agencija za poljoprivredu i hranu

Ulica kardinala Alojzija Stepinca 17, HR-31000 Osijek

Centar za vinogradarstvo, vinarstvo i uljarstvo

Odjel - laboratorij za fizikalno kemijska ispitivanja

Odjel - laboratorij za senzorna ispitivanja

Gorice 68b, HR-10000 Zagreb

Područje akreditacije:

Scope of Accreditation:

Fizikalno kemijska ispitivanja mošta, vina, voćnih vina, aromatiziranih proizvoda od vina, jakih alkoholnih pića, maslinovih ulja i ostalih biljnih ulja te senzorna ispitivanja vina, voćnih vina, aromatiziranih proizvoda od vina i jakih alkoholnih pića

Physicochemical testing of must, wine, fruit wines, aromatised wine products, spirit drinks, olive oils and other vegetables oils

and sensory testing of wine, fruit wines, aromatised wine products and spirit drinks

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 – laboratorij za fizikalno kemijska ispitivanja

| Br. No. | Materijali/Proizvodi Materials/Products | Vrsta ispitivanja/Svojstvo Type of test/Property <i>Raspon/Range</i> | Metoda ispitivanja Test method |
|---------|--|---|--|
| 1. | Mošt, vino, voćno vino, aromatizirani proizvodi od vina, jaka alkoholna pića <i>Must, wine, fruit wine, aromatised wine products, spirit drinks</i> | Određivanje gustoće i relativne gustoće pri 20 °C elektronskom denzimetrijom s frekventnim oscilatorom <i>Determination of density and specific gravity at 20°C by electronic densimetry with frequency oscillator</i> | OIV-MA-AS2-01B:R2021 <i>Compendium of International Methods of Wine and Must Analysis, International Organisation of Vine and Wine</i> |
| 2. | | Određivanje ukupnih šećera potenciometrijskom titracijom <i>Determination of total sugars by potentiometric titration</i> | Vlastita metoda / <i>In-house method</i> Ru-L1-7.2-11 Izdanje 02/Issue 02, 2023-10-16 |
| 3. | Mošt, vino, voćno vino, aromatizirani proizvodi od vina <i>Must, wine, fruit wine, aromatised wine products</i> | Određivanje alkoholne jakosti NIR spektrometrijom <i>Determination of alcoholic strength by NIR spectrometry</i> | Vlastita metoda/ <i>In-house method</i> Ru-L1-7.2-4 Izdanje 03/Issue 03 2023-10-16 |
| 4. | | Određivanje reducirajućih šećera titracijom uz indikator <i>Determination of reducing sugars by titration with indicator</i> | <i>H. Rebelein, Chem. Mikrobiol. Technol. Lebensm. 2, 112, 1973.</i> |
| 5. | | Određivanje reducirajućih šećera potenciometrijskom titracijom <i>Determination of reducing sugars by potentiometric titration</i> | Vlastita metoda/ <i>In-house method</i> Ru-L1-7.2-8 Izdanje 03/Issue 03, 2023-10-16 |
| 6. | | Određivanje ukupne kiselosti titracijom uz indikator <i>Determination of total acidity by titration with indicator</i> | OIV-MA-AS313-01: R2015 <i>Compendium of International Methods of Wine and Must Analysis, International Organisation of Vine and Wine</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> |
|----------------|--|--|--|
| 7. | | Priprema destilata i određivanje alkoholne jakosti elektronskom denzimetrijom s frekventnim oscilatorom <i>Preparation of distillate and determination of alcoholic strength by electronic densimetry with frequency oscillator</i> | OIV-MA-BS-02:R2009 OIV-MA-BS-04:R2009 <i>Compendium of International Methods of Analysis of Spirituous Beverages of Vitivinicultural Origin, International Organisation of Vine and Wine</i> |
| 8. | Jaka alkoholna pića <i>Spirit drinks</i> | Određivanje hlapivih spojeva i metanola <i>Determination of volatile substances and methanol</i> | Uredba Komisije (EEZ) br. 2870/2000 od 19. prosinca 2000. o utvrđivanju referentnih metoda Zajednice za analizu jakih alkoholnih pića <i>Commission Regulation of 19 December 2000 laying down Community reference methods for the analysis of spirits drinks</i> Prilog/Annex III |
| 9. | | Određivanje ukupnog suhog ekstrakta <i>Determination of total dry extract</i> | OIV-MA-AS2-03B:R2012 <i>Compendium of International Methods of Wine and Must Analysis, International Organisation of Vine and Wine</i> |
| 10. | Vino, voćno vino, aromatizirani proizvodi od vina <i>Wine, fruit wine, aromatised wine products</i> | Određivanje pepela <i>Ash content determination</i> | OIV-MA-AS2-04:R2009 <i>Compendium of International Methods of Wine and Must Analysis, International Organisation of Vine and Wine</i> |
| 11. | | Određivanje pH vrijednosti <i>Determination of pH</i> | OIV-MA-AS313-15:R2011 <i>Compendium of International Methods of Wine and Must Analysis, International Organisation of Vine and Wine</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> |
|----------------|--|--|--|
| 12. | Vino, voćno vino, aromatizirani proizvodi od vina <i>Wine, fruit wine, aromatised wine products</i> | Određivanje hlapive kiselosti <i>Determination of volatile acidity</i> | OIV-MA-AS313-02: R2015 <i>Compendium of International Methods of Wine and Must Analysis, International Organisation of Vine and Wine</i> |
| 13. | | Određivanje slobodnog sumpornog dioksida <i>Determination of free sulphur dioxide</i> | OIV-MA-AS323-04A1: R2021 <i>Compendium of International Methods of Wine and Must Analysis, International Organisation of Vine and Wine</i> |
| 14. | | Određivanje ukupnog sumpornog dioksida <i>Determination of total sulphur dioxide</i> | OIV-MA-AS323-04A2: R2021 <i>Compendium of International Methods of Wine and Must Analysis, International Organisation of Vine and Wine</i> |
| 15. | | Određivanje tlaka <i>Determination of pressure</i> | OIV-MA-AS314-02: R2009 <i>Compendium of International Methods of Wine and Must Analysis, International Organisation of Vine and Wine</i> |
| 16. | | Određivanje limunske kiseline <i>Determination of citric acid</i> | OIV-MA-AS313-09: R2009 <i>Compendium of International Methods of Wine and Must Analysis, International Organisation of Vine and Wine</i> |
| 17. | | Određivanje glicerola <i>Determination of glycerol</i> | OIV-MA-AS312-05: R2009 <i>Compendium of International Methods of Wine and Must Analysis, International Organisation of Vine and Wine</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> |
|----------------|--|---|---|
| 18. | Vino, voćno vino, aromatizirani proizvodi od vina <i>Wine, fruit wine, aromatised wine products</i> | Određivanje D-glukonske kiseline <i>Determination of D-gluconic acid</i> | OIV-MA-AS313-28: R2019 <i>Compendium of International Methods of Wine and Must Analysis, International Organisation of Vine and Wine</i> |
| 19. | | Spektrofotometrijsko određivanje ukupnog sumpornog dioksida <i>Spectrophotometric determination of total sulphur dioxide</i> | Vlastita metoda/ <i>In-house method</i> Ru-L1-7.2.-25 Izdanje 03/ <i>Issue 03</i> , 2023-10-16 |
| 20. | | Određivanje slobodnog sumpornog dioksida analizatorom s kontinuiranim protokom <i>Determination of free sulfur dioxide by a continuous flow analyzer</i> | Vlastita metoda/ <i>In-house method</i> Ru-L1-7.2-26 Izdanje 04/ <i>Issue 04</i> , 2025-06-03 |
| 21. | Vino <i>Wine</i> | Određivanje alkoholne jakosti, pH vrijednosti, reducirajućih šećera, ukupne kiselosti i hlapive kiselosti metodom infracrvene spektroskopije s Fourier-ovom transformacijom (FTIR) <i>Determination of alcoholic strength, pH-value, reducing sugars, total acidity and volatile acidity of wine by method of Fourier Transform Infrared Spectroscopy (FTIR)</i> | Vlastita metoda/ <i>In-house method</i> Ru-L1-7.2-27 Izdanje 05/ <i>Issue 05</i> , 2025-09-17 |
| 22. | Vino <i>Wine</i> | Određivanje omjera stabilnih izotopa ugljika ¹³ C/ ¹² C etanola vina <i>Determination of ¹³C/¹²C isotope ratio of wine ethanol</i> | OIV-MA-AS312-06:R2009 <i>Compendium of International Methods of Wine and Must Analysis, International organization of Vine and Wine*</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> |
|----------------|--|---|--|
| 23. | Vino <i>Wine</i> | Određivanje omjera stabilnih izotopa kisika $^{18}\text{O}/^{16}\text{O}$ u vodi vina i mošta <i>Determination of $^{18}\text{O}/^{16}\text{O}$ isotopic ratio of water in wines and must</i> | OIV-MA-AS2-12:R2009 <i>Compendium of International Methods of Wine and Must Analysis, International organization of Vine and Wine</i> |
| 24. | Vino <i>Wine</i> | Određivanje slobodnog i ukupnog sumporovog dioksida u vinu metodom infracrvene spektroskopije s Fourier-ovom transformacijom (FTIR) <i>Determination of free and total sulfur dioxide in wine using Fourier-transform infrared (FTIR) spectroscopy</i> | Vlastita metoda/ <i>In-house method</i> Ru-L1-7.2-33 Izdanje 01/Issue 01, 2025-10-20 |
| 25. | Maslinova ulja i ulja od komine maslina <i>Olive oils and olive pomace oils</i> | Određivanje slobodnih masnih kiselina, hladna metoda <i>Determination of free fatty acids, cold method</i> | INTERNATIONAL OLIVE COUNCIL COI/T.20 /Doc. No. 34./Rev. 1 2017 |
| 26. | Maslinova ulja <i>Olive oils</i> | Određivanje peroksidnog broja <i>Determination of peroxide value</i> | INTERNATIONAL OLIVE COUNCIL COI/T.20 /Doc. No 35/Rev. 1 2017 |
| 27. | Maslinova ulja <i>Olive oils</i> | Spektrofotometrijsko određivanje koeficijenata ekstinkcije u UV području <i>Spectrophotometric determination of the extinction coefficients in the UV region</i> | ANNEX IX INTERNATIONAL OLIVE COUNCIL COI/T.20/Doc No. 19/Rev. 5 2019 |

Odjel - laboratorij za senzorna ispitivanja

| 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> |
|----------------|--|--|---|
| 28. | Vino <i>Wine</i> | Organoleptično (senzorno) ispitivanje <i>Organoleptic (sensory) testing</i> | Pravilnik o vinarstvu, NN 81/2022, 75/2023, 81/2023, 82/2024, 5/2026 <i>Ordinance on winemaking, Official Gazette No. 81/2022, 75/2023, 81/2023, 82/2024, 5/2026</i> |
| 29. | Voćno vino <i>Fruit wine</i> | Organoleptično (senzorno) ispitivanje <i>Organoleptic (sensory) testing</i> | Pravilnik o vinarstvu, NN 81/2022, 75/2023, 81/2023, 82/2024, 5/2026 <i>Ordinance on winemaking, Official Gazette No. 81/2022, 75/2023, 81/2023, 82/2024, 5/2026</i> |
| 30. | Aromatizirani proizvodi od vina <i>Aromatised wine products</i> | Organoleptično (senzorno) ispitivanje <i>Organoleptic (sensory) testing</i> | Uredba (EU) br. 251/2014 Europskog Parlamenta i Vijeća od 26. veljače 2014. o definiciji, opisivanju, prezentiranju, označivanju i zaštiti oznaka zemljopisnog podrijetla aromatiziranih proizvoda od vina i stavljanju izvan snage Uredbe Vijeća (EEZ) br. 1601/91 <i>Regulation (EU) No 251/2014 of the European Parliament and of the Council of 26 February 2014 on the definition, description, presentation, labelling and the protection of geographical indications of aromatised wine products and repealing Council Regulation (EEC) No 1601/91</i> Pravilnik o vinarstvu, NN 81/2022, 75/2023, 81/2023, 82/2024, 5/2026 <i>Ordinance on winemaking, Official Gazette No. 81/2022, 75/2023, 81/2023, 82/2024, 5/2026</i> |

| Br. No. | Materijali/Proizvodi Materials/Products | Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range | Metoda ispitivanja Test method |
|--------------------|--|---|---|
| 31. | Jaka alkoholna pića <i>Spirit drinks</i> | Organoleptično (senzorno) ispitivanje <i>Organoleptic (sensory) testing</i> | Vlastita metoda/ <i>In-house method</i> P-L2-7.2/D2 Izdanje 01/ <i>Issue 01,</i> 2023-10-25 |

* Priprema uzorka prema / *Preparation of a sample according to* OIV-MA-AS311-05/2011