



Potvrda o akreditaciji Accreditation Certificate

Ovime se utvrđuje da je
This is to recognize that

ELDA d.o.o.
Zrinskih 62, HR-35400 Nova Gradiška
ELDA laboratorij
1. Industrijski odvojak 6, HR-35400 Nova Gradiška

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 e-tekućina za elektroničke cigarete
Ispitivanje antiseptika i dezinficijensa
Testing of e-liquids for electronic cigarettes
Testing of antiseptics and disinfectants

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.: 1625
Klasa/Ref.No.: 383-02/23-30/038
Urbroj/Id.No.: 569-05/3-24-34
Zagreb, 2024-03-18

Akreditacija istječe-Accreditation expiry: 2029-03-17
Prva akreditacija-Initial accreditation: 2019-03-18

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: 1625

Annex to Accreditation Certificate Number:

Klasa/Ref. No.: 383-02/23-30/038

Urbroj/Id. No.: 569-05/3-25-29

Datum izdanja priloga /Annex Issued on: 2025-07-18

Norma: HRN EN ISO/IEC 17025:2017

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

Zamjenjuje prilog/Replaces Annex:

Klasa/Ref. No.: 383-02/23-30/038

Urbroj/Id. No.: 569-05/3-24-33

Datum izdanja priloga /Annex Issued on: 2024-03-18

Akreditacija istječe: 2029-03-17

Accreditation expiry:

Prva akreditacija: 2019-03-18

Initial accreditation:

Akreditirani laboratorij

Accredited Laboratory

ELDA d.o.o.

Zrinskih 62, HR-35400 Nova Gradiška

ELDA laboratorij

1. Industrijski odvojak 6, HR-35400 Nova Gradiška

Područje akreditacije:

Scope of Accreditation:

Ispitivanje e-tekućina za elektroničke cigarete

Ispitivanje antiseptika i dezinficijensa

Testing of e-liquids for electronic cigarettes

Testing of antiseptics and disinfectants

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*

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.	E-tekućine i aerosol elektroničkih cigareta <i>E-liquids and electronic cigarettes aerosol</i>	<p>Određivanje nikotina GCMS tehnikom <i>Determination of nicotine by GCMS technique</i></p> <p>Granica kvantifikacije <i>Quantification limit</i> LOQ 0,082 mg/ml LOQ 0,0025 mg/puff</p>	<p>Vlastita metoda / <i>In-house method</i> RU-L-09/1 Izdanje/Issue 7 2023-10-19</p>
2.	E-tekućine <i>E-liquids</i>	<p>Određivanje gustoće metodom oscilacijskog denzitometra <i>Determination of density by Oscillation method</i></p> <p>od 0 do 3 g/cm³ <i>up 0 to 3 g/cm³</i></p>	<p>HRN EN ISO 2811-3:2023 <i>(ISO 2811-3:2023;</i> <i>EN ISO 2811-3: 2023)</i></p>
3.	Antiseptici i dezinficijensi <i>Antiseptics and disinfectants</i>	<p>Određivanje udjela alkohola metodom određivanja gustoće oscilacijskim denzitometrom <i>Determination of alcohol content by density measurements with oscillation densitometer</i></p> <p>od 0 do 100% <i>up 0 to 100%</i></p>	<p>Vlastita metoda <i>In-house method</i> RU-L-09/5 Izdanje/Issue 4 2024-02-20 na temelju upute proizvođača Anton Paar za denzitometar DMA 4100 M <i>based on the manufacturer's instructions Anton Paar for densitometer DMA 4100 M</i></p>

Br. No.	Materijali/Proizvodi Materials/Products	Vrsta ispitivanja/Svojstvo Type of test/Property Raspon/Range	Metoda ispitivanja Test method																																	
4.	E-tekućine i aerosol elektroničkih cigareta <i>E-liquids and electronic cigarettes aerosol</i>	<p>Određivanje odabranih karbonila (formaldehid, acetaldehid, diacetil, aceton, akrolein, acetilpropionil) HPLC tehnikom <i>Determination of selected carbonyl (formaldehyde, acetaldehyde, diacetyl, acetone, acroleine, acetylpropionyl) by HPLC technique</i></p> <p>Granica kvantifikacije <i>Quantification limit</i></p> <table border="1"> <thead> <tr> <th colspan="2">e-tekućina/e-liquid aerosol/aerosol</th> </tr> </thead> <tbody> <tr> <td>Formaldehid</td> <td>2,63 mg/L</td> </tr> <tr> <td>Acetaldehid</td> <td>3,60 mg/L</td> </tr> <tr> <td>Diacetil</td> <td>5,81 mg/L</td> </tr> <tr> <td>Aceton</td> <td>8,45 mg/L</td> </tr> <tr> <td>Akrolein</td> <td>9,83 mg/L</td> </tr> <tr> <td>Acetil propionil</td> <td>8,66 mg/L</td> </tr> </tbody> </table>	e-tekućina/e-liquid aerosol/aerosol		Formaldehid	2,63 mg/L	Acetaldehid	3,60 mg/L	Diacetil	5,81 mg/L	Aceton	8,45 mg/L	Akrolein	9,83 mg/L	Acetil propionil	8,66 mg/L	<p>Vlastita metoda / <i>In-house method</i> RU-L-09/6 Izdanje/Issue 3 2022-09-29</p>																			
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5.	E-tekućine i aerosol elektroničkih cigareta <i>E-liquids and electronic cigarettes aerosol</i>	<p>Određivanje odabranih metala (Al, As, Cd, Cr, Cu, Fe, Hg, Ni, Pb, Sb) ICP-OES tehnikom <i>Determination of selected metals (Al, As, Cd, Cr, Cu, Fe, Hg, Ni, Pb, Sb) by ICP-OES technique</i></p> <p>Granica kvantifikacije <i>Quantification limit</i></p> <table border="1"> <thead> <tr> <th></th> <th>e-tekućina/e-liquid</th> <th>aerosol/aerosol</th> </tr> </thead> <tbody> <tr> <td>Aluminij</td> <td>0,651 mg/L</td> <td>0,326 mg/L</td> </tr> <tr> <td>Arsen</td> <td>0,937 mg/L</td> <td>0,468 mg/L</td> </tr> <tr> <td>Kadmij</td> <td>0,137 mg/L</td> <td>0,069 mg/L</td> </tr> <tr> <td>Krom</td> <td>0,106 mg/L</td> <td>0,053 mg/L</td> </tr> <tr> <td>Bakar</td> <td>0,102 mg/L</td> <td>0,051 mg/L</td> </tr> <tr> <td>Željezo</td> <td>0,400 mg/L</td> <td>0,200 mg/L</td> </tr> <tr> <td>Živa</td> <td>0,106 mg/L</td> <td>0,053 mg/L</td> </tr> <tr> <td>Nikal</td> <td>0,085 mg/L</td> <td>0,042 mg/L</td> </tr> <tr> <td>Olovo</td> <td>0,466 mg/L</td> <td>0,233 mg/L</td> </tr> <tr> <td>Antimon</td> <td>0,421 mg/L</td> <td>0,211 mg/L</td> </tr> </tbody> </table>		e-tekućina/e-liquid	aerosol/aerosol	Aluminij	0,651 mg/L	0,326 mg/L	Arsen	0,937 mg/L	0,468 mg/L	Kadmij	0,137 mg/L	0,069 mg/L	Krom	0,106 mg/L	0,053 mg/L	Bakar	0,102 mg/L	0,051 mg/L	Željezo	0,400 mg/L	0,200 mg/L	Živa	0,106 mg/L	0,053 mg/L	Nikal	0,085 mg/L	0,042 mg/L	Olovo	0,466 mg/L	0,233 mg/L	Antimon	0,421 mg/L	0,211 mg/L	<p>Vlastita metoda / <i>In-house method</i> RU-L-09/7 Izdanje/Issue 4 2024-04-11</p>
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6.	E-tekućine i aerosol elektroničkih cigareta <i>E-liquids and electronic cigarettes aerosol</i>	<p>Određivanje propilen glikola i glicerola GCMS tehnikom <i>Determination of propylene glycol and glycerol by GCMS technique</i></p> <p>Granica kvantifikacije <i>Quantification limit</i></p> <table border="1"> <thead> <tr> <th colspan="3">e-tekućina/e-liquid</th> </tr> </thead> <tbody> <tr> <td>Propilen glikol</td> <td>24,17 mg/ml</td> <td>2,42%</td> </tr> <tr> <td>Glicerol</td> <td>84,89 mg/ml</td> <td>8,49%</td> </tr> <tr> <th colspan="3">aerosol/aerosol</th> </tr> <tr> <td>Propilen glikol</td> <td>10,89 mg/ml</td> <td>1,09%</td> </tr> <tr> <td>Glicerol</td> <td>38,24 mg/ml</td> <td>3,82%</td> </tr> </tbody> </table>	e-tekućina/e-liquid			Propilen glikol	24,17 mg/ml	2,42%	Glicerol	84,89 mg/ml	8,49%	aerosol/aerosol			Propilen glikol	10,89 mg/ml	1,09%	Glicerol	38,24 mg/ml	3,82%	Vlastita metoda / <i>In-house method</i> RU-L-09/8 Izdanje/Issue 4 2024-02-07
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7.	E-tekućina <i>E-liquid</i>	<p>Određivanje odabranih kanabinoida (kanabidiola [CBD]) HPLC tehnikom <i>Determination of selected cannabinoids (cannabidiol [CBD]) by HPLC technique</i></p> <p>Granica kvantifikacije <i>Quantification limit</i></p> <table border="1"> <thead> <tr> <th colspan="3">e-tekućina/ e-liquid</th> </tr> </thead> <tbody> <tr> <td>CBD</td> <td>2,84 mg/L</td> <td>0,0003%</td> </tr> </tbody> </table>	e-tekućina/ e-liquid			CBD	2,84 mg/L	0,0003%	Vlastita metoda/ <i>In-house method</i> RU-L-09/9 Izdanje/Issue 2 2024-02-07												
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CBD	2,84 mg/L	0,0003%																			
8.	E-tekućine i aerosol elektroničkih cigareta <i>E-liquids and electronic cigarettes aerosol</i>	<p>Kvalitativno određivanje etilen glikola i dietilglikola GCMS tehnikom <i>Qualitatively determination of ethylene glycol and diethylene glycol by GCMS technique</i></p>	Vlastita metoda / <i>In-house method</i> RU-L-09/10 Izdanje/Issue 2 2022-02-21																		
9.	E-tekućine i aerosol elektroničkih cigareta <i>E-liquids and electronic cigarettes aerosol</i>	<p>Kvalitativno određivanje kofeina GCMS tehnikom <i>Qualitatively determination of caffeine by GCMS technique</i></p>	Vlastita metoda / <i>In-house method</i> RU-L-09/11 Izdanje/Issue 2 2022-02-21																		
10.	Antiseptici <i>Antiseptics</i>	<p>Kvalitativno određivanje etanola, metanola i izopropanola GCMS tehnikom <i>Qualitatively determination of ethanol, methanol and isopropanol by GCMS technique</i></p>	Vlastita metoda / <i>In-house method</i> RU-L-09/13 Izdanje/Issue 2 2021-08-10																		