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## **PRILOGA K AKREDITACIJSKI LISTINI** ***Annex to the accreditation certificate***

### **LP-090**

#### **1 AKREDITIRANI ORGAN / Accredited body**

Institut Jožef Stefan

Jamova cesta 39, 1000 Ljubljana

Odsek za znanosti o okolju: Skupina za radiokemijo

#### **2 STANDARD**

SIST EN ISO/IEC 17025:2005

#### **3 OBSEG AKREDITACIJE / Scope of accreditation**

V okviru te akreditacijske listine Slovenska akreditacija priznava akreditiranemu organu usposobljenost za opravljanje naslednjih dejavnosti: / SA hereby acknowledges the accredited body as being competent for performing the following activities:

##### **3.1 Skrajšan opis obsega akreditacije / A short description of the scope**

Področja preskušanja glede na vrsto preskušanja / Testing fields with reference to the type of test:

- kemija, radiokemija, sevanje / chemistry, radiochemistry, radiation

Področja preskušanja glede na vrsto preskušanca / Testing fields with reference to the type of test item:

- okolje in vzorci iz okolja / environment and samples from the environment
- živila / foodstuffs
- kmetijski proizvodi (krma) / agricultural products (fodders)

- biološki vzorci / *biological samples*

Kopija priloge za objavo na spletnem mestu. / *Copy of attachment for web publishing.*

### 3.2 Podroben opis obsega akreditacija / Detailed scope of accreditation

#### 3.2.1 Odsek za znanosti o okolju, Skupina za radiokemijo, Jamova cesta 39, 1000 Ljubljana

Tabela 1 / Table 1

Tip obsega: <b>fixni</b> / Type of scope: <b>fixed</b> Mesto izvajanja: <b>v laboratoriju</b> / Site: <b>in the laboratory</b> Področja preskušanja glede na vrsto preskušanja: <b>radiokemija, sevanje</b> / Testing fields with reference to the type of test: <b>radiochemistry, radiation</b> Področja preskušanja glede na vrsto preskušanca: <b>okolje in vzorci iz okolja; živila; kmetijski proizvodi (krma); biološki vzorci</b> / Testing fields with reference to the type of test item: <b>environment and samples from the environment; foodstuffs; agricultural products (fodders); biological samples</b>				
Št. No.	Oznaka standarda ali nestandardne preskusne metode Reference to standard or non-standard testing method	Naslov standarda ali nestandardne preskusne metode in morebitne navezave na druge standarde ali metode Title of standard or non-standard testing method and eventual relations to other standards or methods	Območje preskušanja; Negotovost rezultata preskušanja (kjer je to pomembno) Range of testing; Uncertainty of the result of testing (where relevant)	Materiali; proizvodi Materials; products
1.	SDN-O2-STC (01) interna metoda, 8. izdaja in-house method, version 8	Določanje stroncija z beta štetjem Determination of strontium by beta counting	<sup>89/90</sup> Sr minimalna aktivnost minimal detectable activity (MDA): 0,016 Bq  - zemlja, sedimenti (glede na suho snov) soil, sediment (on dry matter basis) območje (range): (0,27 - 180) Bq/kg  - voda water območje (range): (0,016 – 10,8) Bq/kg  - hrana, mleko, krma, sušina (glede na suho snov) foodstuffs, milk, feedstuffs, residue (on dry matter basis) območje (range): (0,032 - 155) Bq/kg  - zračni filtri (filter in zračni delci) aerosol filters (filter and air particles) območje (range): (0,16 - 2700) Bq/kg  Negotovost rezultata za vse vzorce, odvisna od koncentracije aktivnosti in vrste vzorca. Uncertainty of result for all samples, depending of activity concentrations and matrix. Relativna kombinirana standardna negotovost (u <sub>c</sub> ) Relative combined standard uncertainty (u <sub>c</sub> ): od/from: 4,5% do/to: 30%  <sup>90</sup> Sr minimalna aktivnost minimal detectable activity (MDA): 0,062 Bq  - zemlja, sedimenti (glede na suho snov) soil, sediment (on dry matter basis) območje (range): (1,04 - 350) Bq/kg  - voda water	vzorci iz okolja, živila in krma samples from the environment, foodstuffs and feedstuffs

Tip obsega: <b>fiksn</b> / Type of scope: <b>fixed</b> Mesto izvajanja: <b>v laboratoriju</b> / Site: <b>in the laboratory</b> Področja preskušanja glede na vrsto preskušanja: <b>radiokemija, sevanje</b> / Testing fields with reference to the type of test: <b>radiochemistry, radiation</b> Področja preskušanja glede na vrsto preskušanca: <b>okolje in vzorci iz okolja; živila; kmetijski proizvodi (krma); biološki vzorci / products (fodders); biological samples</b>				
Št. No.	Oznaka standarda ali nestandardne preskusne metode <i>Reference to standard or non-standard testing method</i>	Naslov standarda ali nestandardne preskusne metode in morebitne navezave na druge standarde ali metode <i>Title of standard or non-standard testing method and eventual relations to other standards or methods</i>	Območje preskušanja; <b>Negotovost</b> rezultata preskušanja (kjer je to pomembno) <i>Range of testing; <b>Uncertainty</b> of the result of testing (where relevant)</i>	Materiali; <b>proizvodi</b> <i>Materials; <b>products</b></i>
			območje (range): (0,062 - 21) Bq/kg  - hrana, mleko, krma, sušina (glede na suho snov) <i>foodstuffs, milk, feedstuffs, residue (on dry matter basis)</i> območje (range): (0,125 - 210) Bq/kg  - zračni filtri (filter in zračni delci) <i>aerosol filters (filter and air particles)</i> območje (range): (0,62 - 5200) Bq/kg  Negotovost rezultata za vse vzorce, odvisna od koncentracije aktivnosti in vrste vzorca. <i>Uncertainty of result for all samples, depending of activity concentrations and matrix.</i> Relativna kombinirana standardna negotovost ( $u_c$ ) <i>Relative combined standard uncertainty (<math>u_c</math>): od/from: 3,5% do/to: 30%</i>  <sup>89</sup> Sr minimalna aktivnost <i>minimal detectable activity (MDA): 0,013 Bq</i>  - zemlja, sedimenti (glede na suho snov) <i>soil, sediment (on dry matter basis)</i> območje (range): (0,22 - 280) Bq/kg  - voda <i>water</i> območje (range): (0,013 - 17) Bq/kg  - hrana, mleko, krma, sušina (glede na suho snov) <i>foodstuffs, milk, feedstuffs, residue (on dry matter basis)</i> območje (range): (0,026 - 170) Bq/kg  - zračni filtri (filter in zračni delci) <i>aerosol filters (filter and air particles)</i> območje (range): (0,13 - 4200) Bq/kg  Negotovost rezultata za vse vzorce, odvisna od koncentracije aktivnosti in vrste vzorca. <i>Uncertainty of result for all samples, depending of activity concentrations and matrix.</i> Relativna kombinirana standardna negotovost ( $u_c$ )	

Tip obsega: <b>fixni</b> / Type of scope: <b>fixed</b> Mesto izvajanja: <b>v laboratoriju</b> / Site: <b>in the laboratory</b> Področja preskušanja glede na vrsto preskušanja: <b>radiokemija, sevanje</b> / Testing fields with reference to the type of test: <b>radiochemistry, radiation</b> Področja preskušanja glede na vrsto preskušanca: <b>okolje in vzorci iz okolja; živila; kmetijski proizvodi (krma); biološki vzorci / products (fodders); biological samples</b>				
Št. No.	Oznaka standarda ali nestandardne preskusne metode <i>Reference to standard or non-standard testing method</i>	Naslov standarda ali nestandardne preskusne metode in morebitne navezave na druge standarde ali metode <i>Title of standard or non-standard testing method and eventual relations to other standards or methods</i>	Območje preskušanja; <b>Negotovost</b> rezultata preskušanja (kjer je to pomembno) <i>Range of testing; Uncertainty of the result of testing (where relevant)</i>	Materiali; <b>proizvodi</b> <i>Materials; products</i>
			<i>Relative combined standard uncertainty (u<sub>c</sub>): od/from: 3,5% do/to: 48%</i>	
2.	SDN-O2-STC (02) interna metoda, 7. izdaja <i>in-house method, version 7</i>	Določanje tritija s tekočinskim scintilacijskim štetjem <i>Determination of tritium activity by liquid scintillation counting</i>	direktna metoda <i>direct method</i> območje (range): (4,8 – 4,4E+06) Bq/kg  Relativna kombinirana standardna negotovost (u <sub>c</sub> ) <i>Relative combined standard uncertainty (u<sub>c</sub>): od/from: 1,0% do/to: 32%</i>  elektroliza <i>electrolytical enrichment</i> območje(range): (0,13 - 320) Bq/kg  Relativna kombinirana standardna negotovost (u <sub>c</sub> ) <i>Relative combined standard uncertainty (u<sub>c</sub>): od/from: 2,0% do/to: 32%</i>	voda, urin <i>water, urine</i>  voda <i>water</i>
3.	SDN-O2-STC (03) interna metoda, 8. izdaja <i>in-house method, version 8</i>	Določanje <sup>14</sup> C v bazični raztopini <i>Determination of <sup>14</sup>C in alkaline solution</i>	območje (range): (2,3 – 8000) Bq/kg Relativna kombinirana standardna negotovost (u <sub>c</sub> ) <i>Relative combined standard uncertainty (u<sub>c</sub>): od/from: 4,0% do/to: 46%</i>	bazična raztopina <i>alkaline solution</i>

## 3.2.2 Odsek za znanosti o okolju, Skupina za radiokemijo, Brinje 40, 1231 Podgorica

Tabela 2 / Table 2

Tip obsega: <b>fiksni</b> / Type of scope: <b>fixed</b> Mesto izvajanja: <b>v laboratoriju</b> / Site: <b>in the laboratory</b> Področja preskušanja glede na vrsto preskušanja: <b>kemija</b> / Testing fields with reference to the type of test: <b>chemistry</b> Področja preskušanja glede na vrsto preskušanca: <b>okolje in vzorci iz okolja; živila; kmetijski proizvodi (krma); biološki vzorci /</b> Testing fields with reference to the type of test item: <b>environment and samples from the environment; foodstuffs; agricultural</b> <b>products (fodders); biological samples</b>																																																																																																																																																																																																																											
Št. No.	Oznaka standarda ali nestandardne preskusne metode Reference to standard or non-standard testing method	Naslov standarda ali nestandardne preskusne metode in morebitne navezave na druge standarde ali metode Title of standard or non-standard testing method and eventual relations to other standards or methods	Območje preskušanja; Negotovost rezultata preskušanja (kjer je to pomembno) Range of testing; Uncertainty of the result of testing (where relevant)	Materiali; proizvodi Materials; products																																																																																																																																																																																																																							
4.	SDN-O2-K0 (01) interna metoda, 8. izdaja in-house method, version 8	Določanje elementne sestave v vzorcih iz okolja s $k_0$ -INAA Determining elemental composition of environmental samples using $k_0$ -INAA	Območje preskušanja Range of testing Relativna kombinirana standardna negotovost ( $u_c$ ), % Relative combined standard uncertainty ( $u_c$ ), % <table border="1"> <thead> <tr> <th></th> <th>Od/From mg/kg</th> <th>Do/To mg/kg</th> <th>Od/From <math>u_c</math> (%)</th> <th>Do/To <math>u_c</math> (%)</th> </tr> </thead> <tbody> <tr><td>Ag</td><td>0,1</td><td>5,0</td><td>3,5</td><td>20</td></tr> <tr><td></td><td>&gt; 5,0</td><td>1E+04</td><td>3,5</td><td>4,0</td></tr> <tr><td>As</td><td>0,1</td><td>5,0</td><td>3,5</td><td>10</td></tr> <tr><td></td><td>&gt; 5,0</td><td>5E+05</td><td>3,5</td><td>4,0</td></tr> <tr><td>Au</td><td>0,001</td><td>0,050</td><td>3,5</td><td>20</td></tr> <tr><td></td><td>&gt; 0,050</td><td>1E+04</td><td>3,5</td><td>4,0</td></tr> <tr><td>Br</td><td>0,5</td><td>5,0</td><td>3,5</td><td>20</td></tr> <tr><td></td><td>&gt; 5,0</td><td>1E+04</td><td>3,5</td><td>4,0</td></tr> <tr><td>Ca</td><td>300</td><td>1E+04</td><td>3,5</td><td>20</td></tr> <tr><td></td><td>&gt; 1E+04</td><td>3E+05</td><td>3,5</td><td>4,0</td></tr> <tr><td>Ce</td><td>0,2</td><td>10,0</td><td>3,5</td><td>20</td></tr> <tr><td></td><td>&gt; 10,0</td><td>1E+03</td><td>3,5</td><td>4,0</td></tr> <tr><td>Co</td><td>0,02</td><td>10,0</td><td>3,5</td><td>20</td></tr> <tr><td></td><td>&gt; 10,0</td><td>1E+03</td><td>3,5</td><td>4,0</td></tr> <tr><td>Cr</td><td>0,5</td><td>20,0</td><td>3,5</td><td>20</td></tr> <tr><td></td><td>&gt; 20,0</td><td>1E+03</td><td>3,5</td><td>4,0</td></tr> <tr><td>Cs</td><td>0,03</td><td>5,0</td><td>3,5</td><td>20</td></tr> <tr><td></td><td>&gt; 5,0</td><td>1E+03</td><td>3,5</td><td>4,0</td></tr> <tr><td>Eu</td><td>0,01</td><td>2,0</td><td>3,5</td><td>20</td></tr> <tr><td></td><td>&gt; 2,0</td><td>1E+02</td><td>3,5</td><td>4,0</td></tr> <tr><td>Fe</td><td>20</td><td>1E+03</td><td>3,5</td><td>20</td></tr> <tr><td></td><td>&gt; 1E+03</td><td>7E+05</td><td>3,5</td><td>4,0</td></tr> <tr><td>Hf</td><td>0,05</td><td>5,0</td><td>3,5</td><td>20</td></tr> <tr><td></td><td>&gt; 5,0</td><td>1E+03</td><td>3,5</td><td>4,0</td></tr> <tr><td>Hg</td><td>0,2</td><td>10,0</td><td>3,5</td><td>20</td></tr> <tr><td></td><td>&gt; 10,0</td><td>1E+03</td><td>3,5</td><td>4,0</td></tr> <tr><td>K</td><td>100</td><td>5E+03</td><td>3,5</td><td>20</td></tr> <tr><td></td><td>&gt; 5E+03</td><td>1E+05</td><td>3,5</td><td>4,0</td></tr> <tr><td>La</td><td>0,03</td><td>5,0</td><td>3,5</td><td>20</td></tr> <tr><td></td><td>&gt; 5,0</td><td>1E+03</td><td>3,5</td><td>4,0</td></tr> <tr><td>Mo</td><td>1,0</td><td>10,0</td><td>5,0</td><td>30</td></tr> <tr><td></td><td>&gt; 10,0</td><td>1E+03</td><td>4,0</td><td>5,0</td></tr> <tr><td>Na</td><td>1,0</td><td>1E+03</td><td>3,5</td><td>10</td></tr> <tr><td></td><td>&gt; 1E+03</td><td>1E+05</td><td>3,5</td><td>4,0</td></tr> <tr><td>Nd</td><td>0,5</td><td>10,0</td><td>4,0</td><td>20</td></tr> <tr><td></td><td>&gt; 10,0</td><td>1E+03</td><td>4,0</td><td>5,0</td></tr> <tr><td>Rb</td><td>0,6</td><td>20,0</td><td>3,5</td><td>20</td></tr> <tr><td></td><td>&gt; 20,0</td><td>1E+03</td><td>3,5</td><td>4,0</td></tr> <tr><td>Sb</td><td>0,01</td><td>5,0</td><td>3,5</td><td>10</td></tr> <tr><td></td><td>&gt; 5,0</td><td>5E+03</td><td>3,5</td><td>4,0</td></tr> <tr><td>Sc</td><td>0,005</td><td>5,0</td><td>3,5</td><td>20</td></tr> <tr><td></td><td>&gt; 5,0</td><td>1E+03</td><td>3,5</td><td>4,0</td></tr> </tbody> </table>		Od/From mg/kg	Do/To mg/kg	Od/From $u_c$ (%)	Do/To $u_c$ (%)	Ag	0,1	5,0	3,5	20		> 5,0	1E+04	3,5	4,0	As	0,1	5,0	3,5	10		> 5,0	5E+05	3,5	4,0	Au	0,001	0,050	3,5	20		> 0,050	1E+04	3,5	4,0	Br	0,5	5,0	3,5	20		> 5,0	1E+04	3,5	4,0	Ca	300	1E+04	3,5	20		> 1E+04	3E+05	3,5	4,0	Ce	0,2	10,0	3,5	20		> 10,0	1E+03	3,5	4,0	Co	0,02	10,0	3,5	20		> 10,0	1E+03	3,5	4,0	Cr	0,5	20,0	3,5	20		> 20,0	1E+03	3,5	4,0	Cs	0,03	5,0	3,5	20		> 5,0	1E+03	3,5	4,0	Eu	0,01	2,0	3,5	20		> 2,0	1E+02	3,5	4,0	Fe	20	1E+03	3,5	20		> 1E+03	7E+05	3,5	4,0	Hf	0,05	5,0	3,5	20		> 5,0	1E+03	3,5	4,0	Hg	0,2	10,0	3,5	20		> 10,0	1E+03	3,5	4,0	K	100	5E+03	3,5	20		> 5E+03	1E+05	3,5	4,0	La	0,03	5,0	3,5	20		> 5,0	1E+03	3,5	4,0	Mo	1,0	10,0	5,0	30		> 10,0	1E+03	4,0	5,0	Na	1,0	1E+03	3,5	10		> 1E+03	1E+05	3,5	4,0	Nd	0,5	10,0	4,0	20		> 10,0	1E+03	4,0	5,0	Rb	0,6	20,0	3,5	20		> 20,0	1E+03	3,5	4,0	Sb	0,01	5,0	3,5	10		> 5,0	5E+03	3,5	4,0	Sc	0,005	5,0	3,5	20		> 5,0	1E+03	3,5	4,0	tla, sedimenti, minerali, blata čistilnih naprav, soil, sediments, ores, sewage sludge
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	> 10,0	1E+03	4,0	5,0																																																																																																																																																																																																																							
Na	1,0	1E+03	3,5	10																																																																																																																																																																																																																							
	> 1E+03	1E+05	3,5	4,0																																																																																																																																																																																																																							
Nd	0,5	10,0	4,0	20																																																																																																																																																																																																																							
	> 10,0	1E+03	4,0	5,0																																																																																																																																																																																																																							
Rb	0,6	20,0	3,5	20																																																																																																																																																																																																																							
	> 20,0	1E+03	3,5	4,0																																																																																																																																																																																																																							
Sb	0,01	5,0	3,5	10																																																																																																																																																																																																																							
	> 5,0	5E+03	3,5	4,0																																																																																																																																																																																																																							
Sc	0,005	5,0	3,5	20																																																																																																																																																																																																																							
	> 5,0	1E+03	3,5	4,0																																																																																																																																																																																																																							



Tip obsega: **fiksni** / Type of scope: **fixed**

Mesto izvajanja: **v laboratoriju** / Site: **in the laboratory**

Področja preskušanja glede na vrsto preskušanja: **kemija** / Testing fields with reference to the type of test: **chemistry**

Področja preskušanja glede na vrsto preskušanca: **okolje in vzorci iz okolja; živila; kmetijski proizvodi (krma); biološki vzorci / Testing fields with reference to the type of test item: **environment and samples from the environment; foodstuffs; agricultural products (fodders); biological samples****

Št. No.	Oznaka standarda ali nestandardne preskusne metode <i>Reference to standard or non- standard testing method</i>	Naslov standarda ali nestandardne preskusne metode in morebitne navezave na druge standarde ali metode <i>Title of standard or non-standard testing method and eventual relations to other standards or methods</i>	Območje preskušanja; <b>Negotovost</b> rezultata preskušanja (kjer je to pomembno) <i>Range of testing; <b>Uncertainty</b> of the result of testing (where relevant)</i>				<b>Materiali;</b> <b>proizvodi</b> <b>Materials;</b> <b>products</b>		
			Se	0,5	10,0	3,5	20		
			> 10,0	1E+03	3,5	4,0			
			Sm	0,005	5,0	3,5	20		
			> 5,0	1E+03	3,5	4,0			
			Sr	50	1E+02	5,0	20		
			> 1E+02	1E+03	5,0	10			
			Ta	0,01	1,0	3,5	20		
			> 1,0	1E+03	3,5	4,0			
			Tb	0,01	1,0	3,5	20		
			> 1,0	1E+03	3,5	4,0			
			Th	0,04	10,0	3,5	20		
			> 10,0	1E+03	3,5	4,0			
			U	0,1	10,0	3,5	20		
			> 10,0	1E+03	3,5	4,0			
			Yb	0,03	5,0	3,5	20		
			> 5,0	1E+03	3,5	4,0			
			Zn	0,8	1E+02	3,5	20		
			> 1E+02	1E+05	3,5	4,0			
			Zr	30	1E+02	3,5	20		
			> 1E+02	1E+04	3,5	5,0			
			Opomba/Note:						
			Negotovost rezultata za vse vzorce, odvisna od koncentracije in vrste vzorca.						
			<i>Uncertainty of result for all samples, depending of concentrations and matrix.</i>						
			-----						
			Območje preskušanja	Relativna kombinirana standardna negotovost ( $u_c$ ), %		biološki vzorci, hrana, goriva, Biological samples, foodstuffs, fuels			
			<i>Range of testing</i>	<i>Relative combined standard uncertainty (<math>u_c</math>), %</i>					
				Od/From	Do/To	Od/From	Do/To		
				<u>mg/kg</u>	<u>mg/kg</u>	<u><math>u_c</math> (%)</u>	<u><math>u_c</math> (%)</u>		
			Ag	0,04	2,0	3,5	20		
			> 2,0	2E+03	3,5	4,0			
			As	0,03	5,0	3,5	20		
			> 5,0	4E+03	3,5	4,0			
			Au	0,001	0,050	3,5	20		
			> 0,050	1E+02	3,5	4,0			
			Br	0,05	2,0	3,5	20		
			> 2,0	3E+03	3,5	4,0			
			Ca	100	5E+03	4,0	20		
			> 5E+03	1E+05	4,0	10			
			Ce	0,05	2,0	3,5	20		
			> 2,0	1E+03	3,5	4,0			
			Co	0,01	2,0	3,5	20		
			> 2,0	1E+03	3,5	4,0			
			Cr	0,08	5,0	3,5	20		
			> 5,0	1E+03	3,5	4,0			
			Cs	0,006	1,0	3,5	20		
			> 1,0	1E+02	3,5	4,0			
			Eu	0,002	1,0	3,5	20		
			> 1,0	1E+02	3,5	4,0			



Tip obsega: **fiksni** / Type of scope: **fixed**

Mesto izvajanja: **v laboratoriju** / Site: **in the laboratory**

Področja preskušanja glede na vrsto preskušanja: **kemija** / Testing fields with reference to the type of test: **chemistry**

Področja preskušanja glede na vrsto preskušanca: **okolje in vzorci iz okolja; živila; kmetijski proizvodi (krma); biološki vzorci /  
Testing fields with reference to the type of test item: **environment and samples from the environment; foodstuffs; agricultural  
products (fodders); biological samples****

Št. No.	Oznaka standarda ali nestandardne preskusne metode <i>Reference to standard or non- standard testing method</i>	Naslov standarda ali nestandardne preskusne metode in morebitne navezave na druge standarde ali metode <i>Title of standard or non-standard testing method and eventual relations to other standards or methods</i>	Območje preskušanja; <b>Negotovost</b> rezultata preskušanja (kjer je to pomembno) <i>Range of testing; <b>Uncertainty</b> of the result of testing (where relevant)</i>	<b>Materiali;</b> <b>proizvodi</b> <b>Materials;</b> <b>products</b>
			Fe 5 5E+02 3,5 20 > 5E+02 5E+04 3,5 4,0 Hf 0,01 1,0 3,5 20 > 1,0 1E+02 3,5 4,0 Hg 0,05 1,0 3,5 20 > 1,0 1E+02 3,5 4,0 K 5 1E+03 3,5 20 > 1E+03 1E+05 3,5 4,0 La 0,005 1,0 3,5 20 > 1,0 1E+02 3,5 4,0 Mo 0,1 5,0 3,5 20 > 5,0 1E+02 3,5 4,0 Na 0,1 50,0 3,5 20 > 50,0 1E+05 3,5 4,0 Nd 0,2 10,0 3,5 20 > 10,0 1E+02 3,5 4,0 Rb 0,2 10,0 3,5 20 > 10,0 2E+02 3,5 4,0 Sb 0,002 1,0 3,5 20 > 1,0 1E+02 3,5 4,0 Sc 0,0005 1,0 3,5 20 > 1,0 1E+02 3,5 4,0 Se 0,05 5,0 3,5 20 > 5,0 1E+02 3,5 4,0 Sm 0,001 1,0 3,5 20 > 1,0 1E+02 3,5 4,0 Sr 5 1E+02 5,0 20 > 1E+02 1E+03 5,0 10 Ta 0,005 1,0 3,5 20 > 1,0 1E+02 3,5 4,0 Tb 0,005 1,0 3,5 20 > 1,0 1E+02 3,5 4,0 Th 0,01 1,0 3,5 20 > 1,0 1E+02 3,5 4,0 U 0,01 1,0 3,5 20 > 1,0 1E+02 3,5 4,0 Yb 0,01 1,0 3,5 20 > 1,0 1E+02 3,5 4,0 Zn 0,2 1E+02 3,5 20 > 1E+02 1E+03 3,5 4,0 Zr 5 50,0 3,5 20 > 50,0 1E+03 3,5 4,0	
			Opomba/Note: Negotovost rezultata za vse vzorce, odvisna od koncentracije in vrste vzorca. <i>Uncertainty of result for all samples,            depending of concentrations and matrix.</i>	



**Opombe / Notes:**

- V vseh točkah podrobnega obsega akreditacije, pri katerih v rubriki "**Območje** preskušanja; **Negotovost** rezultata preskušanja" ni navedenih podatkov, veljajo določila posameznih standardov oziroma nestandardnih preskusnih metod, ki se na to nanašajo.  
*In all columns of the scope of accreditation where the cells under "**Range** of measurement, testing; **Uncertainty** of the result of testing" are empty, the provisions of the relevant standards or non-standard testing methods should apply.*
- V točkah podrobnega obsega akreditacije, pri katerih v rubriki "**Oznaka** standarda" ni navedena letnica izdaje standarda, se sklic nanaša na zadnjo (veljavno) izdajo standarda, kar jamči interni sistem sledenja in prilagajanja laboratorija spremembam.  
*In those columns of the scope of accreditation where the cells under "**Reference**" do not specify the year of issue of the standard, the latest (valid) standard should apply. This is assured by internal laboratory system of follow-up and adaptation to changes.*

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Direktor / *Director*  
dr. Boštjan Godec

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