



INŠTITUT ZA MLEKARSTVO IN PROBIOTIKE  
INSTITUTE OF DAIRY SCIENCE & PROBIOTICS

**CATALOGUE OF SERVICES**

***Proficiency testing***

**2024**

**SET 1:****TOTAL BACTERIAL COUNT – Instrumental method**

Parameter:

**Individual Bacteria Count (IBC)/ $\mu$ l**

Determination method:

Flow cytometry and others

Approximate range:

10 – 3000 IBC/ $\mu$ l

Number of samples:

5 raw milk samples (preserved with sodium azide 0,02 %, frozen)  
 2 milk standards (preserved with Azidiol 0,02 %, frozen)  
 1 control temperature sample (preserved with sodium azide 0,02 %, frozen)

Sample volume:

50 ml

Price for SET 1:	150,00 €
Price for extra SET 1:	75,00 €
Price for extra statistical analysis on SET 1:	30,00 €

**SET 2:****CHEMICAL COMPOSITION OF MILK**

Parameter:

**Fat, Proteins, Lactose anhydride (g/100 g)**

Determination method:

**Fat:** IR spectrometry (ISO 9622/IDF 141), Röse Gottlieb (ISO 1211/IDF 1), Gerber (ISO 19662/IDF 238) and others**Proteins:** IR spectrometry (ISO 9622/IDF 141), Kjeldahl (ISO 8968-3/IDF 20-3) and others**Lactose:** IR spectrometry (ISO 9622/IDF 141), Liquid Chromatography (ISO 22662/IDF 198) and others

Approximate range:

**Fat (g/100 g);** 2,5 – 5,5 g/100 g**Proteins (g/100 g);** 2,5 – 4,5 g/100 g**Lactose anhydride (g/100 g);** 4,0 – 5,5 g/100 g

Number of samples:

10 raw milk samples (preserved with Bronopol® 0.02 %)

Sample volume:

60 ml

Price for SET 2:	210,00 €
Price for extra SET 2:	90,00 €
Price for extra statistical analysis on SET 2:	40,00 €

**SET 3:****SOMATIC CELLS COUNT**

Parameter:

**Somatic cells/ml**

Determination method:

Fluoro-opto-electronic method (ISO 13366-2/IDF 148-2) and others

Approximate range:

50.000 – 1.500.000 cells/ml

Number of samples:

5 raw milk samples (preserved with Bronopol® 0.02 %)

Sample volume:

60 ml

Price for SET 3:	140,00 €
Price for extra SET 3:	75,00 €
Price for extra statistical analysis on SET 3:	25,00 €

**SET 4:****UREA**

Parameter:

**Urea (mg/100 ml)**

Determination method:

IR spectrometry (ISO 9622/IDF 141), differential pH-metry (ISO 14637/IDF 195) and others

Approximate range:

10 – 60 mg/100 ml

Number of samples:

7 raw milk samples (preserved with Bronopol® 0.02 %)

Sample volume:

60 ml

Price for SET 4:	125,00 €
Price for extra SET 4:	60,00 €
Price for extra statistical analysis on SET 4:	25,00 €

**SET 5:**

Parameter:

Determination method:

Approximate range:

**FREEZING POINT****freezing point (°C)**

IR spectrometry (ISO 9622/IDF 141), cryoscopy (ISO 5764/IDF 108) and others

-0,480 to -0,550 °C

Number of samples:

Sample volume:

10 samples of raw milk (preserved with Bronopol® 0.02 %)

60 ml

Price for SET 5:	100,00 €
Price for extra SET 5:	50,00 €
Price for extra statistical analysis on SET 5:	20,00 €

**SET 6:**

Parameter:

**Determination method:**

Number of samples:

Sample volume:

**MICROBIOLOGICAL EXAMINATION OF MILK****Determination of total bacterial count**

plate count at 30 °C (ISO 4833-1) and others

6 milk samples (frozen)

1 control temperature sample (frozen)

50 ml

Price for SET 6:	290,00 €
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**We advised that one SET 6 is analysed by at least 2 analysts from the same laboratory.**

## **Dispatch dates of PT 2024**

<b>SET</b>	MARCH and NOVEMBER 2024
<b>1,2,3,4,5,6</b>	

Proficiency testing for each set of samples is performed at the application of at least three laboratories.

Number of extra SETs is not limited.

VAT is not included in the prices.

**If you are participating in our proficiency testing for the first time, we would also need your tax certificate and we would kindly ask you to pay for the participation up front.**

Costs of transport and documentation (Veterinary certificate for export, invoices...) are not included in the prices.

**Reports** will be published on our website [www.bf.uni-lj.si/en/iml-pro/](http://www.bf.uni-lj.si/en/iml-pro/). Password needed for opening the reports and the identification numbers of your laboratory will be sent to you by e-mail.

Statistical analyse is performed according to ISO 17043 and ISO 13528.

Please send us completed **registration form** (Page 4) to

**E-mail:** [borut.kolenc@bf.uni-lj.si](mailto:borut.kolenc@bf.uni-lj.si)

**before 27<sup>th</sup> December 2023**

Preparation of catalogue: Borut Kolenc

Head of laboratory: dr. Petra Mohar Lorbeg

PROFICIENCY TESTING 2024

Name and DELIVERY/INVOICING address: \_\_\_\_\_

\_\_\_\_\_

Contact person: \_\_\_\_\_

Phone: \_\_\_\_\_ E-mail: \_\_\_\_\_

PLEASE STATE <b><u>THE NUMBER</u></b> OF SETs		
	MARCH	NOVEMBER
SET 1		
SET 2		
SET 3		
SET 4		
SET 5		
SET 6		
<b>Shipping method:</b> <input type="checkbox"/> By post <input type="checkbox"/> Personal take-over <input type="checkbox"/> Other (by agreement)		

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

Please fill in the form legibly in block letters or fill it in electronically!