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**PROFICIENCY TESTING PT.UA.2.10.2019
ANIMAL FEEDING STUFFS (MICROELEMENTS)
PROFICIENCY TESTING PROGRAMME
– ROUND 8**

Kyiv-2025

1. INTRODUCTION

Given the key role of reliable test results that are needed during feeds trade and agriculture in general, requirements for the competence of laboratories that perform such tests should be confirmed.

The purpose of proficiency testing in the determination of the microelements in animal feeding stuffs is to demonstrate the laboratory's competence (as described in ISO/IEC 17043:2023[1]) and improve the reliability of test results.

This proficiency testing involves the use of inter-laboratory comparisons to confirm the performance of individual laboratories' abilities and/or identify areas of improvement.

This proficiency testing scheme is registered in the EPTIS database.

The functioning management system Metrology Service Ltd. (further - Provider) complies with ISO/IEC 17043[1] requirements and covers all aspects of proficiency testing (further - PT) for all proficiency tests.

2. DESCRIPTION

2.1. PARTICIPATION

2.1.1. Minimum methods for participation. Any organization, providing testing by at least one of methods in clause 2.2 may participate in this voluntary Program.

2.1.2. Participant may provide results for all the methods according to clause 2.2.

2.1.3. Metrology service Ltd. assigns a unique identification number to each participant that is confidential and reported only to this participant.

2.1.4. Participation fee for participants from Ukraine is 7 500.00 UAH without VAT. Participation fee for participants from outside of Ukraine is 240.00 USD.

2.1.5. We are expecting from 10 to 20 Participants.

2.1.6. Each participant has a unique identification number what are assigned according to Application form for every round every Programme. This identification number is confidential and can be published only by the permission of the Participant. The Participant should write this unique identification number at Task sheet form for testing and reporting results for identification. If Provider is suspecting collusion or falsification, it applies own procedure for the work with unsatisfied results.

2.2. METHODS

Participants can provide test results for the following methods:

2.2.1. Methods

№	Parameter	Units of measure	Range	Method
1	Mass fraction of Calcium (Ca)	%	0,1-2	Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES).
2	Mass fraction of Potassium (K)	%	0,1-2	
3	Mass fraction of Magnesium (Mg)	%	0,1-2	
4	Mass fraction of Sodium (Na)	%	0,1-2	
5	Mass fraction of Phosphorus (P)	%	0,1-2	Atomic Absorption Spectrometry (AAS)
6	Mass fraction of Sulfur (S)	%	0,1-2	
7	Mass fraction of Aluminum (Al)	mg/kg	20 – 500	
8	Mass fraction of Copper (Cu)	mg/kg	20 – 500	

9	Mass fraction of Iron (Fe)	mg/kg	20 – 500
10	Mass fraction of Manganese (Mn)	mg/kg	20 – 500
11	Mass fraction of Zinc (Zn)	mg/kg	20 – 500
12	Mass fraction of Boron (B)	mg/kg	1 – 20
13	Mass fraction of Cobalt (Co)	mg/kg	1 – 20
14	Mass fraction of Chrome (Cr)	mg/kg	1 – 20
15	Mass fraction of Nickel (Ni)	mg/kg	1 – 20
16	Mass fraction of Lead (Pb)	mg/kg	0,01-0,5
17	Mass fraction of Cadmium (Cd)	mg/kg	0,01-0,5
18	Mass fraction of Arsenic (As)	mg/kg	0,01-0,5

The Information for methods of preparation of samples and way of testing Participant should use from methods according to clause 2.2.

2.3. SAMPLES

2.3.1. Metrology service Ltd. is using contractors for the selection, production, homogenization and division designs that are satisfactory for the purposes of this programme. The names and addresses of contractors can be given by request after publishing the final report.

Provider uses methods according to clause 2.2. for validation of homogeneity and stability. The quantity of methods can be decreased according to the decision of Provider's technical experts.

Tests, that are required to prove homogeneity and stability of samples are performed by competent contractors according to [1-6]. Provider uses a validated procedure of management system Metrology service Ltd for the samples' selection, production, division, checking of the quality and storage.

Requirements for the manufacture, quality control, storage and distribution of samples are determined by the relevant procedures of management system Metrology service Ltd. Metrology service Ltd uses the procedure Пp.ПIK02-2017 for the manufacture, homogenization and separation of samples.

2.3.2. Metrology service Ltd. will send appropriately identified and packaged sample together with task sheet form for testing and reporting results via courier delivery service of Nova Poshta LLC or other delivery service chosen by participant. Shipping expenses for participants from Ukraine are included in participation price. Shipping expenses outside of Ukraine are not included in the price of participation.

Approximately 70±1g. of complete compound feed is used as a sample in round 8.

2.4. SCHEME AND SCHEDULE

2.4.1. This proficiency testing program is a simultaneous participation schemes according to A.3 of appendix A ISO/IEC 17043[1]. Selected samples, prepared according to clause 2.3, from a source of material being distributed simultaneously to participants for concurrent testing. After completion of the testing, the results are returned to Metrology Service Ltd.

Task sheet form for testing and reporting results is distributed with the sample according to clause 2.3. Participant should use only this form for reporting.

Metrology Service Ltd use statistical methods to analyze results and provide report according to clause. 2.5.

2.4.2. Round 8 schedule. By the set of participants

Participants registration	till 13-00 EET 07.11.2026
Sample shipment	10.11.2026

Reporting results for participants	till 13-00 EET 03.12.2026
Report publication	till 16.12.2026

2.5. REPORT AND PROCESSING RESULTS

- 2.5.1. Metrology service Ltd. processes and analyses results according to [1-6].
- 2.5.2. Metrology service Ltd. publishes the Proficiency testing report according to [1].
- 2.5.3. Provider 'Il express Participant's results for quantitative methods as traditional z-scores.
- 2.5.4. The assigned value for each analyte was calculated as the robust mean of the trial data using Huber H15 method or Algorithm A variation, Annex C.3.
- 2.5.5. Proficiency testing report will be published in two languages – English and Ukrainian. Basic (reference) language is English. Both version of the report 'll be published at internet <http://www.metrologyservice.com.ua>

3. PARTICIPANT INFORMATION

Participants must provide e-mail request for participation (Annex 1 to the Program) in accordance with the schedule Round (p.2.4.2.). Application form should be sent to the e-mail address pt.smetrology@gmail.com

4. PROVIDER CONTACTS AND PROGRAM MANAGER

Metrology service Ltd., Ukraine, 03022, Kyiv, 18 Yulii Zdanovskoi st. office 704.

e-mail: pt.smetrology@gmail.com

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tel: +38(099)305-79-78

5. NORMATIVE REFERENCE

1. ISO/IEC 17043:2023 Conformity assessment – General requirements for the competence of proficiency testing providers.
2. ISO 13528:2022 Statistical methods for use in proficiency testing by interlaboratory comparison.
3. FOOD ANALYSIS PERFORMANCE ASSESSMENT SCHEME (FAPAS). Protocol for proficiency testing schemes. version 4. September 2016. Part 3. FAPAS Food microbiology scheme (FEPAS)
4. Fearn, T. and Thompson, M, A new test for 'sufficient homogeneity', Analyst, 2001, 126, 1414-1417.
5. ISO 33405:2024 Reference materials — Approaches for characterization and assessment of homogeneity and stability.
6. ILAC Discussion Paper on Homogeneity and Stability Testing, April 2008.

Addition 1. Application form:

PT Program Name, number of round:	PT.UA.2.10.2019 ANIMAL FEEDING STUFFS (MICROELEMENTS) – ROUND 8
Date of applying:	
The full name of the laboratory original language:	
The full name of the laboratory in english:	
Address of samples delivery:	
Name of the responsible person from the Participant and telephone number (if possible, mobile):	
Contact email address of the responsible person from the Participant:	
Certificate delivery address:	
Information for a contract: Full legal entity name:	
Full legal address:	
Company bank's detail (account, tax code, etc):	
Name of the person signing the Contract:	

* All fields are required