



PROFICIENCY TESTING PT.UA.1.13.2022
SUGAR BEET PULP PELLETS ANALYSIS (QUALITY)
PROFICIENCY TESTING PROGRAMME
– ROUND 2

Kyiv-2024

1. INTRODUCTION

Given the key role of reliable test results that are needed during trade of agricultural products and the results of its processing, requirements for the competence of laboratories that perform such tests should be confirmed.

The purpose of proficiency testing in sugar beet pulp pellets testing 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/parameters for participation. Any organization, providing testing by at least one of methods/parameters 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 6 500.00 UAH without VAT. Participation fee for participants from outside of Ukraine is 200.00 USD.

2.1.5 We are expecting from 5 to 15 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:

	Parameter	Method
1	Moisture and other volatile matter content, %	ISO 6496:1999/ДСТУ ISO 6496:2005
2	Moisture and other volatile matter content, %	GAFTA 2.2:2018
3	Sucrose content, % (Expressed as a mass fraction of the product as received)	GAFTA 10.1:2018
4	Crude protein content, % (Expressed as a mass fraction of the product as received)	ISO 5983-1:2005/ДСТУ EN ISO 5983-1:2022 (EN ISO 5983-1:2005, IDT; ISO 5983-1:2005, IDT)/Поправка № 1:2022 (EN ISO 5983-1:2005/AC:2009, IDT; ISO 5983-1:2005/Cor 1:2008, IDT)
5	Crude protein content, % (Expressed as a mass fraction of the product as received)	ISO 5983-2:2009/ДСТУ EN ISO 5983-2:2022 (EN ISO 5983-2:2009, IDT; ISO 5983-2:2009, IDT)

6	Crude fibre content, %	ISO 6865:2000/ ДСТУ EN ISO 6865:2022 (EN ISO 6865:2000, IDT; ISO 6865:2000, IDT)
7	Moisture content, %	ДСТУ 4647:2006, п. 10.3.1
8	Sucrose content, % (Expressed on dry matter)	ДСТУ 4647:2006, п. 10.4
9	Protein content, % (Expressed on dry matter)	ДСТУ 4647:2006, п. 10.5
10	Mass fraction of crude fibre, % (Expressed on dry matter) (Moisture content according to ДСТУ 4647:2006)	ДСТУ 8844:2019 п. 6.1.
11	Diameter of pellets, mm	ДСТУ 4647:2006, п. 10.10

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 [1-5]. 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 Пп.ПІК02-2017 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 at the expense of the Participant. Shipping expenses are not included in the price of participation.

Sugar beet pulp pellets is used as a sample in round 2 in an amount of 500 g. for each participant.

2.4. SCHEME AND SCHEDULE

2.4.1. This proficiency testing program is a simultaneous participation schemes according to A.2 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 2 schedule.

Participants registration	till 13-00 EET 30.10.2026
Sample shipment	16.11.2026

Reporting results for participants	till 13-00 EET 11.12.2026
Report publication	28.12.2026

2.5. REPORT AND PROCESSING RESULTS

- 2.5.1. Metrology service Ltd. processes and analyses results according to [1-5].
- 2.5.2. Metrology service Ltd. publishes the Proficiency testing report according to [1].
- 2.5.3. Provider 'll 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 Zdanowskoi st., office 704.
e-mail: pt.smetrology@gmail.com
Nataliia Bozhko
phone: +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. Fearn, T. and Thompson, M, A new test for 'sufficient homogeneity', Analyst, 2001, 126, 1414-1417.
4. ISO 33405:2024 Reference materials — Approaches for characterization and assessment of homogeneity and stability.
5. ILAC Discussion Paper on Homogeneity and Stability Testing, April 2008.

Addition 1. Application form:

PT Program Name:	PT.UA.1.13.2022 WHEAT ANALYSIS (QUALITY) – ROUND 2
The full name of the laboratory	
Full legal entity name:	
Address:	
Bank details:	
Name of the person signing the Contract and on the basis of which:	
Delivery address of the sample	
Name of the responsible person from the Participant:	
Contact telephone number (if possible, mobile) and email address of the responsible person from the Participant:	
Certificate delivery address	
Date of application:	

* All fields are required.