





PROFICIENCY TESTING PT.UA.1.4.2017 MILLING PRODUCTS (QUALITY) PROFICIENCY TESTING PROGRAMME - ROUND 8

1. INTRODUCTION

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

The purpose of proficiency testing in flour seeds 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 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 6500.00 UAH without VAT. Participation fee for participants from outside of Ukraine is 225.00 USD.
- 2.1.5. Participation fee for participants from Ukraine who wish to participate in accordance with AACCI Method 56-11.02 is an additional 2000.00 UAH without VAT. Participation fee for participants from outside of Ukraine is an additional 80.00 USD.
 - 2.1.6. We are expecting from 5 to 25 Participants.
- 2.1.7. 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	Method	Note
1.	Moisture, %	ISO 712-1:2024/ ДСТУ ISO 712:2015/ДСТУ EN ISO 712:2022 (EN ISO 712:2009, IDT; ISO 712:2009, IDT)	
2.	Crude protein content, %	LEN ISO 20483·2022 (EN ISO 20483·2013 - IDT·	Expressed on dry matter, factor for converting nitrogen content to protein content - 5.7
3.	Ash yield, %	ISO 2171:2023/ДСТУ ISO 2171:2009	Expressed on dry matter

	Parameter	Method	Note		
4.	Falling number, s	ISO 3093:2009/ДСТУ ISO 3093:2019 (ISO			
		3093:2009, IDT)			
5.	Fat acidity, mg NaOH per 100g. of dry matter*	ISO 7305:2019/ДСТУ 4250:2003			
6.	Wet gluten content, %	ISO 21415-1:2006/ДСТУ ISO 21415-1:2009			
7.	Wet gluten content, %	ISO 21415-2:2015/ДСТУ ISO 21415-2:2009			
8.	Gluten index	ISO 21415-2:2015/ДСТУ ISO 21415-2:2009			
9.	Dry gluten content, %	ISO 21415-3:2006 / ДСТУ EN ISO 21415-3:2022 (EN ISO 21415-3:2007, IDT; ISO 21415-3:2006, IDT)			
10.	Dry gluten content, %	ISO 21415-4:2006/ДСТУ EN ISO 21415-4:2022 (EN ISO 21415-4:2007, IDT; ISO 21415-4:2006, IDT)			
11.	Sedimentation index – Zeleni test, ml	ISO 5529:2007/ДСТУ ISO 5529:2014			
12.	Moisture content, %	Method based on ΓΟCT 9404-88			
13.	Ash content, %	ДСТУ ГОСТ 27494:2019 (ГОСТ 27494–2016, IDT)	Expressed on dry matter		
14.	Mass fraction of fat, %.	ДСТУ ISO 7302:2003	Expressed on dry matter		
15.	Wet gluten content, %	Method based on ΓΟCT 27839-88			
16.	Index of gluten deformation	Method based on ΓΟCT 27839-88			
17.	Whiteness of flour, c.u.	ДСТУ 4870:2007/ДСТУ ГОСТ 26361:2019 (ГОСТ 26361–2013, IDT)			
	Alveograph properties of dough:				
18.	Deformation energy, W	ISO 27971:2023			
19.	Maximum pressure parameter, P	ISO 27971:2023			
20.	Mean abscissa at rupture, L	ISO 27971:2023			
21.	Index of swelling, G	ISO 27971:2023			
22.	Curve configuration ratio, P/L	ISO 27971:2023			
Meth	Method SRC (Solvent Retention Capacity) **				
23.	SRC 100% Water, %	AACCI Method 56-11.02			
24.	SRC 5% Sodium Carbonate (pH 11), %	AACCI Method 56-11.02			
25.	SRC 5 % Lactic Acid (pH 2), %	AACCI Method 56-11.02			
26.	SRC 50% Sucrose, %	AACCI Method 56-11.02			

^{*} use sodium hydroxide (NaOH) for the test

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 [2-6]. 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 $\Pi p.\Pi K02-2017$ 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

^{**}will be included in the study if there are at least 5 participants participate.

Poshta LLC or other delivery service chosen by participant. Shipping expenses outside of Ukraine are not included in the price of participation.

Wheat flour is used as a sample in round 8 in an amount of approximately 2kg. 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 8 schedule.

Participants registration	till 13-00 EET 23.05.2025
Sample shipment	26.05.2024
Reporting results for participants	till 13-00 EET 24.06.2025
Report publication	till 25.07.2025

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 '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 Zdanovskoi 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. Analytical Methods Committee, Robust Statistics How not to reject outliers Part 1. Basic Concepts, Analyst, 1989, 114, 1693-1697.
- 3. Fearn, T. and Thompson, M, A new test for 'sufficient homogeneity', Analyst, 2001, 126, 1414-1417.
- 4. ISO 13528:2022 Statistical methods for use in proficiency testing by interlaboratory comparison.
- 5. ISO Guide 35:2017 Reference materials Guidance for characterization and assessment of homogeneity and stability.
 - 6. ILAC Discussion Paper on Homogeneity and Stability Testing, April 2008.

Addition 1. Application form:

Addition 1. Application form.	
Назва програми ПК, номер	PT.UA.1.4.2017 MILLING PRODUCTS (QUALITY)
раунду:	- ROUND 8
PT Program Name, number of raund:	
Дата подачі заявки:	
Date of applying:	
Повна назва лабораторії	
(українською або англійською	
MOBOIO):	
The full name of the laboratory (original	
language or in english):	
Адреса доставки зразка або номер	
відділення ТОВ «Нова пошта»:	
Address of samples delivery:	
(вказати, отримувач юридична чи фізична особа, місто, номер відділення чи адресу	
доставки, контактні дані отримувача	
(ППП, телефон, ЄДРПОУ):	
ПІБ відповідальної особи від	
Учасника і телефон (при можливості	
мобільний):	
Name of the responsible person from the	
Participant and telephone number (if	
possible, mobile):	
Електронна адреса відповідальної	
особи від Учасника:	
Contact email address of the responsible person from the Participant:	
-	
* Адреса доставки сертифіката:	
Certificate delivery address:	
номер відділення ТОВ «Нова	
пошта»: (вказати, отримувач юридична чи фізична особа, місто, номер відділення	
чи фізична особа, місто, номер віобілення чи адресу доставки, контактні дані	
отримувача (ППП, телефон, ЄДРПОУ)),	
для доставки Укрпоштою вказати	
індекс і адресу:	
Для договору вказати: Повна назва	
юридичної особи:	
Information for a contract: Full legal	
entity name:	
Юридична адреса:	
Full legal address:	
Банківські реквізити, <u>ЄДРПОУ</u> ,	
<u>ІПН</u> :	
Company bank's detail(account, tax code,	
etc):	
ПП, посада особи, що підписує	
Договір і на підставі чого:	
Name of the person signing the Contract:	

^{*} All fields are required.