

Director  
Metrology service Ltd.



Bozhko Nataliia  
May 15<sup>th</sup> 2020

**PROFICIENCY TESTING PT.UA.1.12.2020**  
**PEAS ANALYSIS (QUALITY)**  
**PROFICIENCY TESTING PROGRAMME – ROUND 1**

Kyiv-2020

## 1. INTRODUCTION

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

The purpose of proficiency testing in peas testing is to determine the characteristics of the operation (as described in ISO/IEC 17043 [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.

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 4 000.00 UAH without paying VAT. Participation fee for participants from outside of Ukraine is 190.00 USD.

2.1.5. We are expecting from 10 to 30 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	Note
1.	Moisture content, %	ISO 24557:2009	
2.	Crude protein content, %	ISO 20483:2013/ ДСТУ ISO 20483:2016	Expressed on dry matter, factor for converting nitrogen content to protein content - 6.25.
3.	Defective seeds, %	ISO 605:1991/ДСТУ ISO 605:2007	
4.	Organic and inorganic impurities, %	ISO 605:1991/ДСТУ ISO 605:2007	
5.	Moisture content, %	ГОСТ 13586.5-93	
6.	Protein content, %	ГОСТ 10846-91	Expressed on dry matter, factor for converting nitrogen content to protein content - 6.25.
7.	Grain impurities, %	ГОСТ 30483-97/ДСТУ 4523:2006	
8.	Foreign impurities, %	ГОСТ 30483-97/ДСТУ 4523:2006	

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.

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.

**Peas (*Pisum sativum*) are used as a sample in round 1 in an amount of 2kg. for each participant.**

## 2.4. SCHEME AND SCHEDULE

2.4.1. This proficiency testing program is a simultaneous participation scheme 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.

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

2.4.2. Round 1 schedule.

Participants registration	<b>till 13-00 EET 07.08.2020</b>
Sample shipment	<b>10.08.2020</b>
Reporting results for participants	<b>till 13-00 EET 26.08.2020</b>
Report publication	<b>10.09.2020</b>

## 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. Proficiency testing report will be published in two languages – English and Ukrainian. Basic (reference) language is English.

2.5.4. The assigned value for each analyte was calculated as the robust mean of the trial data using Huber H15 method

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.).

### **4. PROVIDER CONTACTS AND PROGRAM MANAGER**

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

Ilchenko Iryna

e-mail: [pt.smetrology@gmail.com](mailto:pt.smetrology@gmail.com)

Nataliia Bozhko

e-mail: [smetrology@gmail.com](mailto:smetrology@gmail.com)

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

## **5. NORMATIVE REFERENCE**

1. ISO/IEC 17043:2010 Conformity assessment – General requirements for proficiency testing.
2. ISO 13528:2015 Statistical methods for use in proficiency testing by interlaboratory comparisons.
3. FOOD ANALYSIS PERFORMANCE ASSESSMENT SCHEME (FAPAS). Protocol for the organization and analysis of data, sixth edition, 2002.
4. Fearn, T. and Thompson, M, A new test for ‘sufficient homogeneity’, Analyst, 2001, 126, 1414-1417.
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:**

<b>PT Program Name:</b>	<b>PT.UA.1.12.2020 PEAS ANALYSIS (QUALITY) – ROUND 1</b>
<b>The full name of the laboratory</b>	
<b>Full legal entity name:</b>	
<b>Address:</b>	
<b>Bank details:</b>	
<b>Name of the person signing the Contract and on the basis of which:</b>	
<b>Delivery address of the sample</b>	
<b>Name of the responsible person from the Participant:</b>	
<b>Contact telephone number (if possible, mobile) and email address of the responsible person from the Participant:</b>	
<b>Certificate delivery address</b>	
<b>Date of application:</b>	

\* All fields are required.