

Director  
Metrology service Ltd.

Bozhko Nataliia  
"17" May 2019



**PROFICIENCY TESTING PT.UA.2.1.2016  
MICROBIOLOGY IN MEAT PRODUCTS  
PROFICIENCY TESTING PROGRAMME  
– ROUND 6**

Kyiv-2019

## 1. INTRODUCTION

Given the key role of reliable test results that are needed during food safety determination in general, requirements for the competence of laboratories that perform such tests should be confirmed.

The purpose of proficiency testing in microbiology 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 outside of Ukraine is 250.00 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:

|    | <b>Parameter</b>                             | <b>Note</b>        |
|----|--|--------------------|
| 1. | Listeria monocytogenes                       | Detection method   |
| 2. | Salmonellaspp.                               | Detection method   |
| 3. | Colony count                                 | Enumeration method |
| 4. | St. aureus                                   | Detection method   |
| 5. | beta-glucuronidase-positive Escherichia coli | Enumeration method |
| 6. | Coliforms                                    | Detection method   |
| 7. | Enterobacteriaceae                           | Detection method   |

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

Metrology service Ltd. is using contractors for the selection, production, homogenization and division designs that is satisfactory for the purposes of this program. 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 [3-7]. Provider uses a validated procedure of management system Metrology service Ltd for the samples' selection, production, division, checking of the quality and storage.

Sample will be packed in special package and hermetically sealed. Participant must check the packaging, the labeling and sample documents when accepting sample. In case of any damage to the packaging or identification questioning Participant must immediately inform the Provider.

Approximately 200±5 g of **homogenized chicken meat** is used as a sample in round 6.

2.3.2. Sample delivery. 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 chosen by the 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.

## 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.

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

2.4.2. Round 6 schedule.

|                                    |                                  |
|------------------------------------|----------------------------------|
| Participants registration          | <b>till 13-00 EET 02.03.2020</b> |
| Sample shipment                    | <b>03.03.2020</b>                |
| Reporting results for participants | <b>till 13-00 EET 20.03.2020</b> |
| Report publication                 | <b>till 06.04.2020</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].

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

2.5.3. 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.
7. FOOD ANALYSIS PERFORMANCE ASSESSMENT SCHEME (FAPAS). Protocol for proficiency testing schemes.version 4. September 2016. Part 3. FAPAS Food microbiology scheme (FEPAS).
8. ISO 17034:2016 General requirements for the competence of reference material producers.

Addition 1. Application form:

|   |   |
|---|---|
| <b>PT Program Name:</b>   | <b>PT.UA.2.1.2016<br/>MICROBIOLOGY IN MEAT PRODUCTS – ROUND 6</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.