

Training on ISO 17025:2017 - Measurement uncertainty, method validation and traceability

Date: 04 to 08 November 2019

Venue: Laboratory of the Ministry of Agriculture of Georgia, 65 Vaso Godziashvili V Turn, Tbilisi

Accommodation: Betsy's Hotel, 32-34 Makashvili Street, Tbilisi

Prepared by	Irene Flouda and Karen Darbinyan
Objective	Building up comprehensive theoretical and practical competences in the measurement of uncertainty as well as method validation and traceability with a focus on food laboratories
Participants	up to 2 assessors of each of the six NABs of the countries of the Eastern Partnership
Language	Day 1 and 2 – English with Russian interpretation Day 3 – 5 - Russian
Methodology	<ul style="list-style-type: none"> • Presentations and discussions on measurement uncertainty, method validation, procedures of ALAC, and traceability • Analyses of heavy metals in different matrix

Programme		
Time	Activities	Facilitator
Day 1: 04 November 2019		
09:00 – 09:30	Registration	Georgian representatives
09:30 – 10:00	Introduction round and organisation questions	Irene Flouda and Karen Darbinyan
10:00 – 11:00	Measurement uncertainty I	Irene Flouda
10:30 – 10:45	Coffee Break	
10:45 – 12:00	Measurement uncertainty II	Irene Flouda
13:00 – 14:00	Lunch	
14:00 – 16:30	Measurement uncertainty III	Irene Flouda
16:30 – 16:45	Results of the day	Irene Flouda
18:30	Joint dinner at restaurant Lolita, 7, Tamar Chovelidze Street	
Day 2: 05 November 2019		
09:00 – 09:20	Feedback for Day 1	Irene Flouda and Karen Darbinyan
09:20 – 10:30	Measurement uncertainty IV	Irene Flouda
10:30 – 10:45	Coffee Break	
10:45 – 13:00	Measurement uncertainty V	Irene Flouda

13:00 – 14:00	Lunch	
14:00 – 15:00	Presentation: Main criteria for the validation of analytical methods and validation requirements of EU legislation (Karen Darbinyan)	Karen Darbinyan
15:00 – 16:30	Presentation: Control of stability and reliability of testing results in laboratory. (Karen Darbinyan).	Karen Darbinyan
16:30 – 16:45	Results of the day	Irene Flouda and Karen Darbinyan
Day 3: 06 November 2019		
09:00 – 09:20	Feedback for Day 2	Irene Flouda and Karen Darbinyan
09:20 – 12:00	Sample preparation for the determination of heavy metals in various matrices	Participants
12:00 – 13:00	Preparation of samples, standard samples and internal control samples	Participants
13:00 – 14:00	Lunch	
14:00 – 15:30	Analysis of heavy metals in different matrixes by ICP-OES method in accordance with the ISO method	Participants
15:30 – 15:45	Coffee Break	
15:45 – 17:45	Continuation of the analysis	Participants
17:45 – 18:00	Results of the day	Karen Darbinyan
Day 4: 07 November 2019		
09:00 – 09:20	Feedback for Day 3	Karen Darbinyan
09:20 – 11:00	Analysis of quality control samples for calculation validation parameters.	Participants
11:00 – 13:00	Interpretation of results and calculation of validation parameters	Participants
13:00 – 14:00	Lunch	
14:00 – 16:30	Calculation of validation parameters statistical data and possible quality control criteria	Participants
16:30 – 16:45	Coffee Break	
16:45 – 17:45	Calculation of statistical data and measurement uncertainty based on the data obtained	Participants
17:45 – 18:00	Results of the day	Karen Darbinyan
Day 5: 08 November 2019		
09:00 – 09:20	Feedback for Day 4	Karen Darbinyan
09:20 – 10:30	Summarizing of data and creation of method validation report.	Participants
10:30 – 10:45	Coffee Break	
10:45 – 12:45	Calculation of statistical parameters and creation of acceptance criteria for quality control of test results.	Participants
12:45 – 13:45	Lunch	
13:45 – 16:45	Preparation of a standard operating procedure (SOP) for the determination of heavy metals in various matrices.	Participants
16:45 – 17:15	Results of the training and evaluation	Karen Darbinyan