Tunnistus

No. 01208-24

University of Tartu (registry code 74001073,
number of the notice of economic activities 169617) certifies that

Addisu Afrassa Tegegne

date of birth 1 November 1997

has completed the continuing education programme

LC-MS Method Validation

P2AV.TK.829
52 hours (2 ECTS credit points)
by the Office of Academic Affairs
from 21 November 2023 to 2 February 2024

Annika Tina
Head of the Office of Academic Affairs

Esta Pilt
Programme Director for Continuing Education

Tartu, 2 February 2024

A supplement is appended to the certificate

The supplement is valid together with the certificate no. 01208-24

Addisu Afrassa Tegegne

date of birth 1 November 1997

has completed the continuing education programme **LC-MS Method Validation** (P2AV.TK.829) from 21.11.2023 to 02.02.2024, 52 hours (2 ECTS).

Topic	Hours	Lecturer
Practice-oriented on-line course on validation of analytical methods, specifically using LC-MS as technique. The course covered the following topics: - The concept, workflow and scope of validation; - Selectivity and identity confirmation, both via LC and via MS; - Linearity of signal, linear range, sensitivity and their relation to calibration; - Precision, trueness, accuracy, analyte stability and their interrelations; - Limit of detection and limit of quantitation; - Ruggedness and robustness.	52	Ivo Leito, Koit Herodes, Karin Kipper, Riin Rebane, Irja Helm, Asko Laaniste, Hanno Evard

The participant who has successfully passed the course knows:
- the main performance parameters of analytical methods, what they show and which of them are particularly important in different situations;
- the main mathematical concepts and tools in method validation;
- the main approaches for evaluation of the performance parameters in the case of LC/MS analysis.

The participant who has successfully passed the course is able to:
- decide what data are needed for evaluating the different method performance parameters, understand the meaning of the available data and decide whether the available data are sufficient;
- select the approach and design the experiments for obtaining suitable data;
- quantify the relevant performance parameters using the available data and assess whether the obtained values are realistic;
- assess the fitness of the method for the intended purpose based on the values of the evaluated performance parameters.

Method for assessment of learning outcomes: differentiated

Assessment result: A - Excellent

1 ECTS credit point corresponds to 26 hours

Annika Tina
Head of the Office of Academic Affairs

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