



Tunnistus

No. 02026-21

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

Leonardo David Soto Jacome

date of birth 23 April 1994

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 24 November 2020 to 5 February 2021

Annika Tina

Head of the Office of Academic
Affairs

Esta Pilt

Programme Director for Continuing
Education

Tartu, 5 February 2021

A supplement is appended to the certificate



The supplement is valid together
with the certificate no. 02026-21
1/1

Leonardo David Soto Jacome

date of birth 23 April 1994

has completed the continuing education programme **LC-MS Method Validation** (P2AV.TK.829) from 24.11.2020 to 05.02.2021, 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, Anneli Kruve-Viil, 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
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