

## Accepted Manuscript

Title: Comparison of amino acid derivatization reagents for liquid chromatography atmospheric pressure chemical ionization mass spectrometric analysis of seven amino acids in tea extract

Authors: Maarja-Liisa Oldekop, Koit Herodes, Riin Rebane

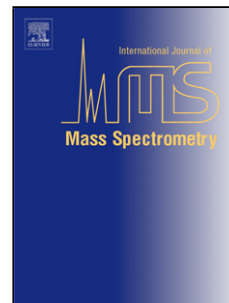
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**Title**

Comparison of amino acid derivatization reagents for liquid chromatography atmospheric pressure chemical ionization mass spectrometric analysis of seven amino acids in tea extract

**CO-AUTHORS:**

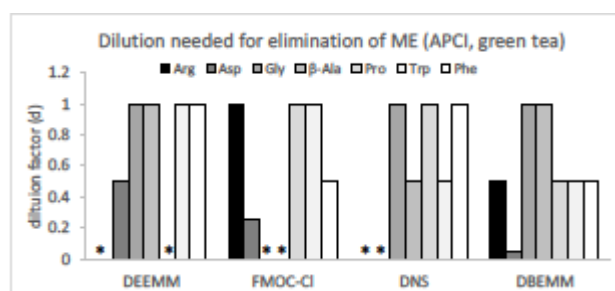
Koit Herodes <sup>a</sup>, koit.herodes@ut.ee

Riin Rebane <sup>a</sup>, riin.rebane@ut.ee

<sup>a</sup> University of Tartu, Ravila 14a, 50411, Tartu, ESTONIA

**CORRESPONDING AUTHOR:**

Maarja-Liisa Oldekop <sup>a</sup>, maarja-liisa.oldekop@ut.ee, tel: +372 56956431

**Graphical abstract****Highlights**

- Applicability of five derivatization reagents for LC-APCI-MS analysis was tested.
- Performance of five derivatization reagents was compared using ESI and APCI LC-MS.
- APCI analysis of green tea proved to be less affected by matrix effects than ESI.
- DEEMM and DNS analyses were less affected by matrix effect than DBEMM and FMOC-Cl.
- APCI and ESI analysis of 7 amino acids in green tea were in very good agreement.

**Abstract**

The applicability of five amino acid derivatization reagents was tested for liquid chromatography atmospheric pressure chemical ionization mass spectrometry (LC-

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