APPLICATION LIST #506

Amino acids analysis in human blood serum

Amino acids play an important role in the life processes of human organism. They are using as building blocks for proteins and regulate a key metabolic pathways. Many kinds of mental disorders, liver and immune system diseases are related to metabolic disorders of amino acids. AAs profile, determined in human blood serum, is used for an early diagnostic of various diseases. This application shows amino acids profile in healthy human blood serum tested by LC-MS MetAmino® kit.

The sample preparation: According to the general protocol scheme [1].

The chromatographic conditions: LC-MS method according to the general protocol scheme [1].

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This application was developed by the Biology Centre CAS, České Budějovice, The Czech Republic.

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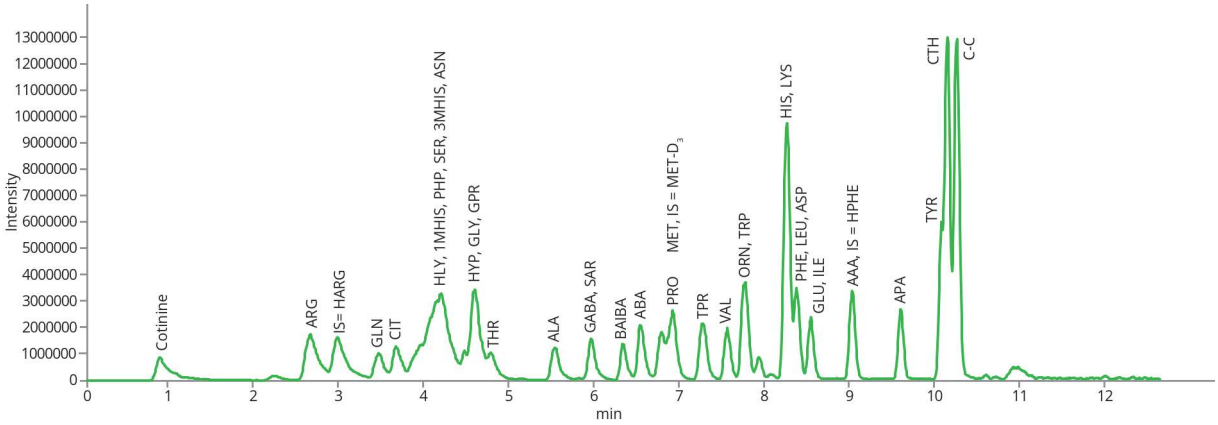
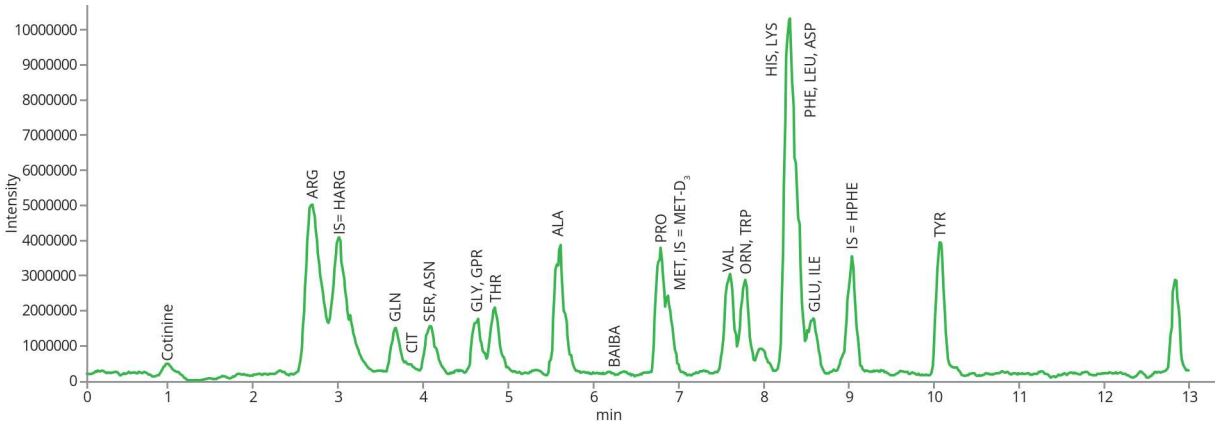


Standard mixture – LC MetAmino® kit; mass extracted chromatogram; 5 nmol SD1 and SD2 according to the manual [1]



Test mixture of human blood serum – LC-Metamino® kit; mass extracted chromatogram; (25 µL of sample)

References:

[1] Chromservis: https://www.chromservis.eu/en/metamino-kit-400139

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