

## Summary of HPLC-MS/MS method for amino acid analysis

Development of his method is described in the manuscript: Gu, L., A.D. Jones and R.L. Last. 2007. Rapid LC-MS/MS assay for protein amino acids and metabolically related compounds. Anal. Chem. 79:8067-8075 (<http://pubs.acs.org/cgi-bin/abstract.cgi/ancham/asap/abs/ac070938b.html>). Please cite this paper if you publish data derived from all or part of this protocol.

### Columns for HPLC:

Waters Symmetry® C<sub>18</sub> 3.5 µm 2.1x100mm analytical column

Waters Symmetry® C<sub>18</sub> 3.5 µm 2.1x10mm guard column

### HPLC:

Shimadzu LC-20AD HPLC

### Injector:

Shimadzu SIL-5000 auto injector

Injection volume: 10 µl.

### Mobile phases:

(A) 1 mM perfluoroheptanoic acid in water and (B) acetonitrile

Total HPLC run time: 6 min.

Flow rate: 0.3 ml/min

Gradient: 0-0.09 min, 98% A, 2% B; 0.1-2.29 min, 80% A, 20% B; 2.3-4.09 min, 60% A, 40% B; 4.1-6 min, 98% A, 2% B.

### Mass spectrometer:

Waters Micromass® Quattro micro™ API mass spectrometer

Electrospray positive mode

Capillary voltage: 3.0 kV

Cone voltage: 26 V

Source temperature: 110°C

Desolvation temperature: 350°C