

Sample preparation for MetIDQ p180 Kit measurement

Solvents:

Acetonitril (Merck KGaA, Darmstadt, Germany hypergrade for LC-MS)

Water MiliQ,

Extracting agent - ACN / H₂O (1:1)

Equipment

4 steel balls size M

Eppendorf Tubes 2mL

Tissue slicer (Rettberg, Germany)

Centrifuge (Sigma)

Work steps

Approximately 100mg of sample and 4 steel balls of size M into each tube. Per mg of sample 5µL of extracting agent was added. Shake the samples for 10 minutes at 30 Hz in the tissue slicer and centrifuge for 2 minutes at 14000 rpm. The supernatant was used for the targeted analytics.

Kit reparation

The analysis was performed using the validated MetIDQ p180 Kit and described in Siskos et al. [1]. Data processing was carried out with the provided quantitation method Kit (Biocrates Life Sciences AG, Innsbruck, Austria).

1 Siskos AP, Jain P, Römisch-Margl W, Bennett M, Achaintre D, Asad Y, *et al.* Interlaboratory Reproducibility of a Targeted Metabolomics Platform for Analysis of Human Serum and Plasma. *Anal Chem* 2017;**89**:656-65.