Lipid Profiling Using the NanoMate®

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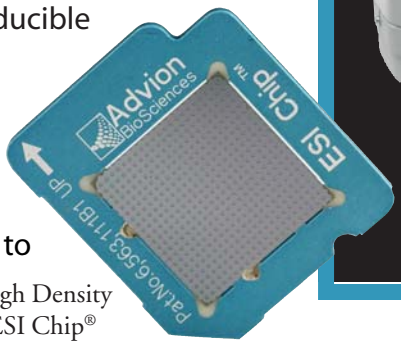
This product note is based on research carried out in the laboratory of Dr. Andrej Shevchenko

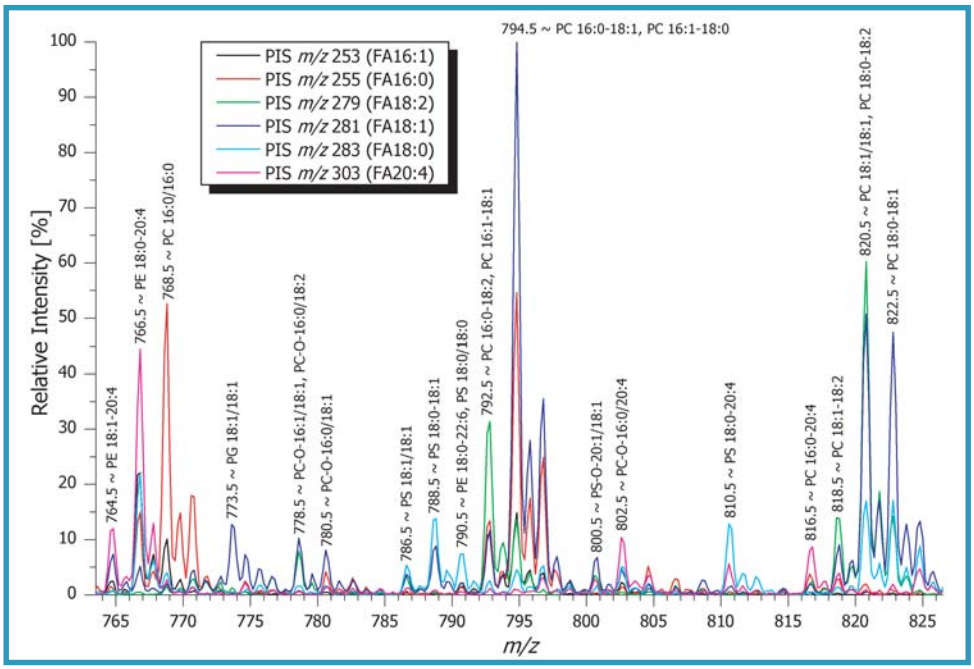
Fast, reproducible, and automated lipid analysis using chip-based nanoelectrospray infusion

- Quantify and identify individual lipid species
- Consistent profile response from reproducible chip-based spray with up to 100 or 400 analyses per chip
- No nozzle cross contamination
- Fast and automated analysis compared to conventional nanoelectrospray



High Density ESI Chip®

Overlaid Precursor Ion Spectra Obtained Using NanoMate Infusion in Combination with Multiple Precursor Ion Scanning on a QSTAR Mass Spectrometer



Lipid profile of mouse intestine

Glycerophospholipid species were detected by multiple precursor ion scanning for fatty acid fragment ions

Peak identification was performed using prototype Lipid Profiler software (MDS Sciex)

PC - phosphatidylcholine
PE - phosphatidylethanolamine
PS - phosphatidylserine
PG - phosphatidylglycerol
FA - fatty acid
PIS - precursor ion scan

The analysis was performed by Christer S. Ejsing

The laboratory of Dr. Andrej Schevchenko is situated at the Max-Planck Institute of Molecular Cell Biology and Genetics in Dresden, Germany. His research interests include developing novel mass spectrometry-based methodology for rapid and comprehensive quantification of individual lipid species in biological extracts.

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