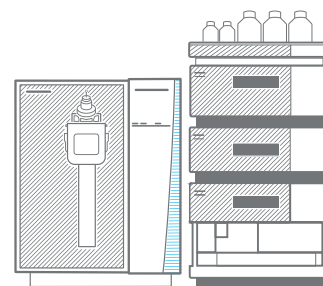


Thermo Scientific™ UltiMate™ 3000 RSLCnano system with ProFlow™ technology

The ultimate in productivity and performance

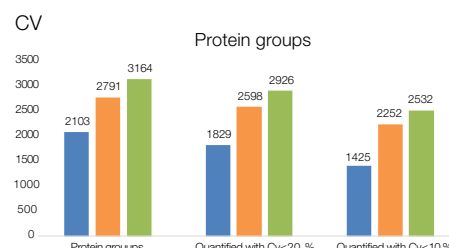
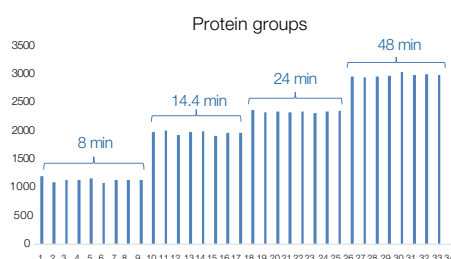
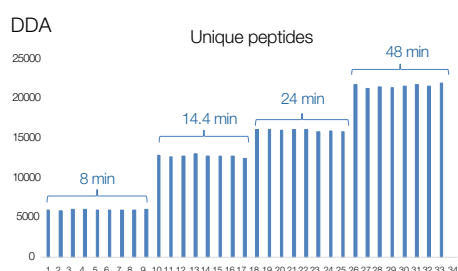


High-throughput, robust and quantitative low-flow LCMS profiling of complex biological matrices

Standardized and easy to deploy high-throughput low-flow LC-MS methods

	Flow, $\mu\text{L}/\text{min}$	Samples per 24 hours	MS utiliz., %	PWHM, sec	PW base, sec	Asymm.
60 min	0.300	24	95	10	19	1.23
48 min	0.400	30	90	9	18	1.21
24 min	0.800	60	87	7	13	1.17
14.4 min	1.000	100	85	4	7	1.13
8 min	1.500	180	75	3	6	1.16

- High MS utilization (> 75%) with up to 180 samples analyzed per day
- Intelligent and optimized separation methods for maximum performance
- Negligible carryover facilitating continuous sample analysis
- Compatibility with challenging matrices (e.g. crude plasma extracts)
- Versatility of low-flow LC-MS methods that can be easily adjusted to any sample type, target(s)



Number of protein and peptide groups identified from 200 ng HeLa protein digest with 75 μm I.D. x 15 cm Thermo Scientific™ EASY™-Spray column on Thermo Scientific™ Orbitrap Exploris™ 480 mass spectrometer.

Number of protein groups identified and quantified using short gradients in DIA experiments (blue: 8 min; orange 14.4 min, green: 24 min total analysis time).

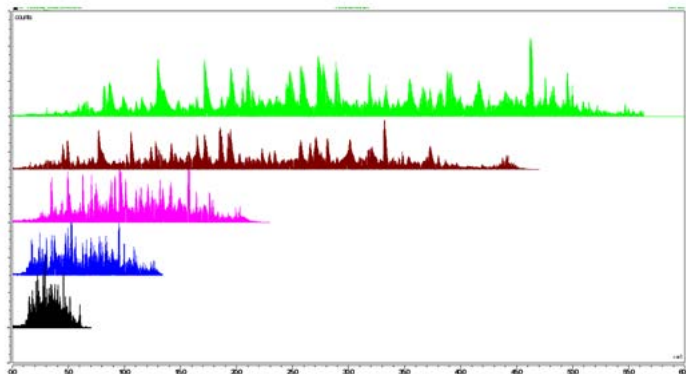
For full details visit: [PlanetOrbitrapA2336](https://www.thermo.com/PlanetOrbitrapA2336)

Download LCMS methods at Thermo Scientific [AppsLab Library](https://www.thermo.com/AppsLabLibrary)

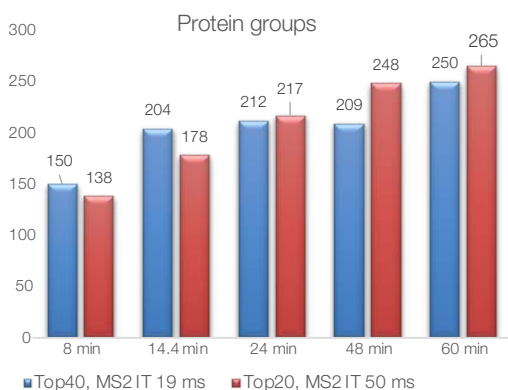
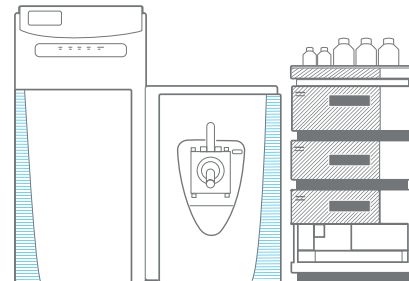
The UltiMate 3000 RSLCnano system with ProFlow technology — the ultimate proteomics powerhouse

Robust analysis of Biological Fluids

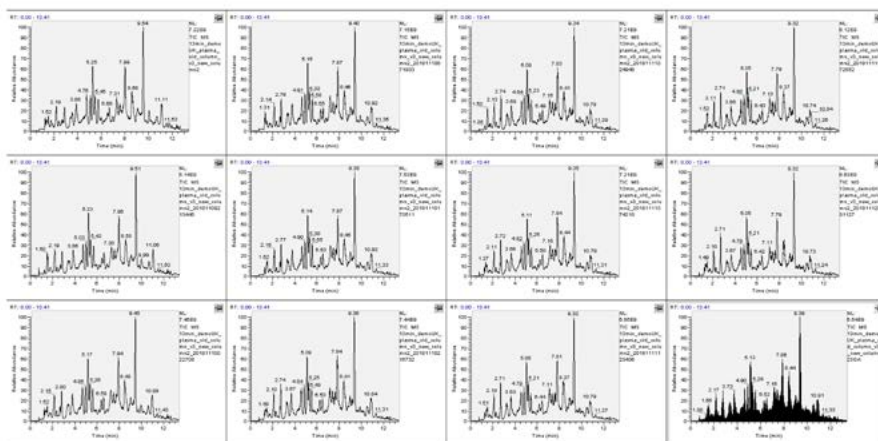
Wide low-flow — pressure footprint for UHPLC focused high-throughput applications or better resolution with longer columns without hardware or fluidics exchange



Typical TIC profiles of crude plasma protein digests analyzed with 8, 14.4, 24, 48 and 60 min LC-MS methods.



The number of protein groups identified with 1% FDR in crude plasma protein digest using optimized LC-MS methods.



Representative TIC Chromatograms for the consecutive measurement of > 200 crude plasma samples in < 3 days. Last Figure represents LC-MS/MS profile.

From the most comprehensive “deep dive” analyses, to high-throughput applications — go pro with ProFlow on the UltiMate 3000 RSLCnano

- Consistent run-to-run results
- One low-flow LCMS system for any proteomics challenge
- Broad analyte concentration range spanning 5 orders of magnitude
- Upgrade kits available for virtually any basic or advanced low-flow LCMS application

For full details visit: PlanetOrbitrapA2357

Find out more at thermofisher.com/nanoLCMS