Metabolomic Analysis of Extracted Jurkat T Cells by LC-HRMS

ACE®
Ultra-inert
UHPLC & HPLC Columns

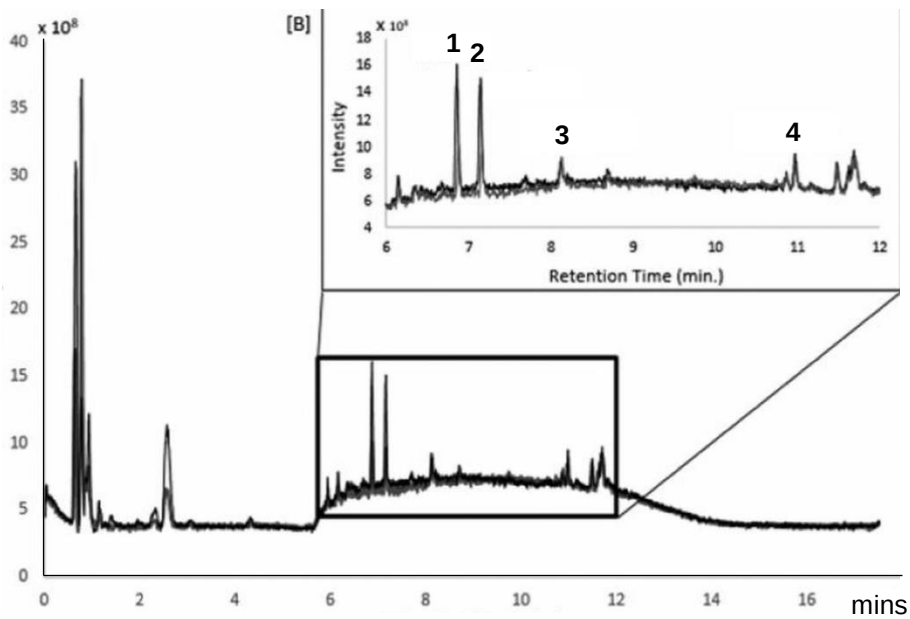
Application #AN3980

Conditions

Column:	ACE Excel 2 C18-PFP
Dimensions:	100 x 2.1 mm
Part Number:	EXL-1010-1002U
Mobile Phase:	A: 0.1% formic acid in H_2O
	B: 0.1% formic acid in MeCN

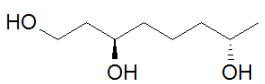
Time (mins)	%B
0	0
1	0
11	65
13	65
18	95
20	95

Flow Rate:	0.35 mL/min
Injection:	5 µL
Temperature:	35 °C
Detection:	Thermo Scientific Q Exactive Orbitrap MS
	Heated electrospray ionisation in positive mode
	Spray Voltage: 3.3 kV
	Capillary Temperature: 300 °C
	Heater Temperature: 350 °C
	Mass Scan Range: *m/z* 70-1000
	Resolution: 70,000

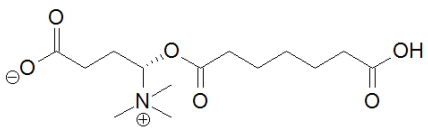


TIC overlay for Jurkat T-lymphocyte cells rinsed with either 0.3% ammonium formate (darker line) or 0.3% ammonium acetate

1. Caffeine-d3 (IS)
2. Tryptophan-d3 (IS)



3. 1,3,7-Octanetriol



4. Pimelylcarnitine

Ulmer CZ, Yost RA, Chen J, Mathews CE, Garrett TJ. Liquid-Chromatography-Mass Spectrometry Metabolic and Lipodomic Sample Preparation Workflow for Suspension-Cultured Mammalian Cells using Jurkat T Lymphocyte Cells, J. Proteomics Bioinform, (2015), 8(6), 126-132

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