HALO®

CLINICAL / TOXICOLOGY

HILIC Mode Separation of Polar Metabolites Using the novel HALO® 1.5 mm ID Penta-HILIC Column

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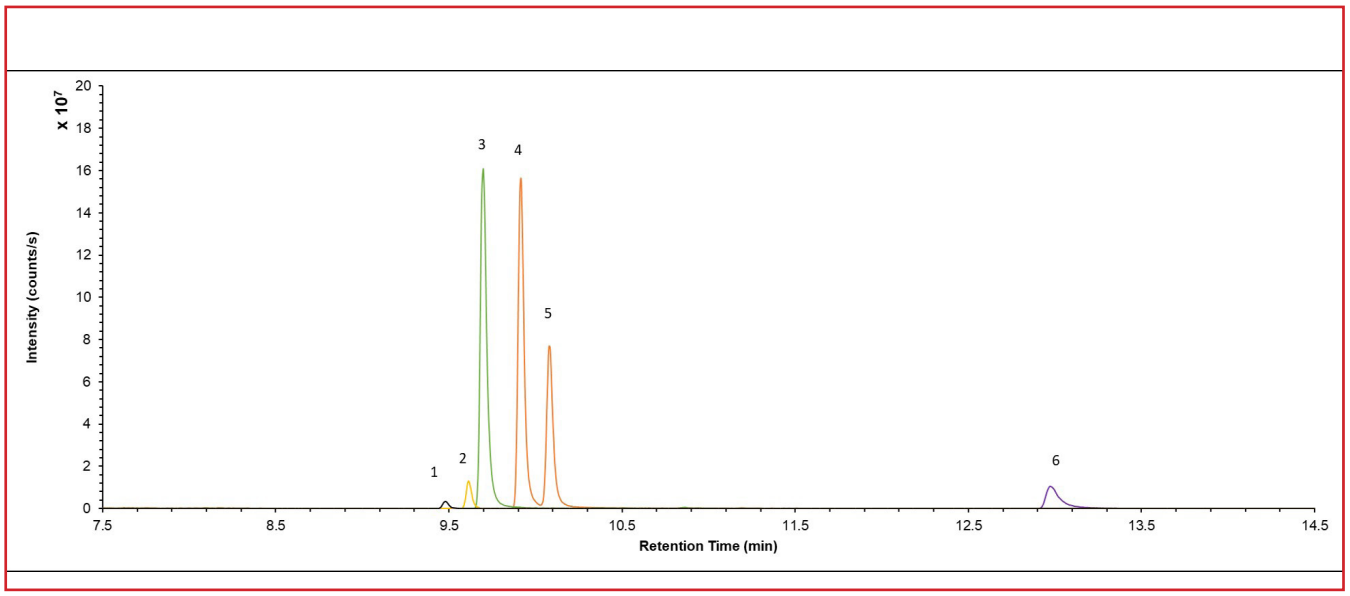

TEST CONDITIONS:

Column: HALO 90 Å Penta-HILIC 2.7 µm 1.5 x 150 mm
Part Number: 9281X-705
Mobile Phase A: 8 mM ammonium formate, pH 4.0 (aq.), in 50:50 acetonitrile:water
Mobile Phase B: 8 mM ammonium formate, pH 4.0 (aq.), in 95:5 acetonitrile:water

Gradient:	**Time**	**%B**
	0.0	100
	3.0	100
	17.0	0
	20.0	0
	20.5	100

Flow Rate: 0.15 mL/min
Temperature: 45 °C
Injection Volume: 1 µL
Sample Solvent: 90/10 ACN/10mM Ammonium Acetate pH 4
LC System: Shimadzu Nexera X2

PEAK IDENTITIES:

1. Niacin
2. Tryptophan
3. Phenylalanine
4. Leucine
5. Isoleucine
6. Arginine

MS CONDITIONS:

System: ThermoFisher Q Exactive HF Hybrid Orbitrap
Spray Voltage (kV): 3.2
Capillary Temperature: 350 °C
Sheath gas: 35
Aux gas: 15
RF lens: 40

Metabolites from a yeast extract were separated using a HALO® 1.5 mm ID Penta-HILIC, 2.7 µm column. Baseline resolution of the isomeric compounds leucine and isoleucine was obtained. By using a 1.5 mm ID column, 50% less solvent is used compared to running on a 2.1 mm ID column.

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