HALO®

CLINICAL / TOXICOLOGY

A Reversed Phase Separation of Polar Metabolites Using the HALO® 1.5 mm ID AQ-C18 Column

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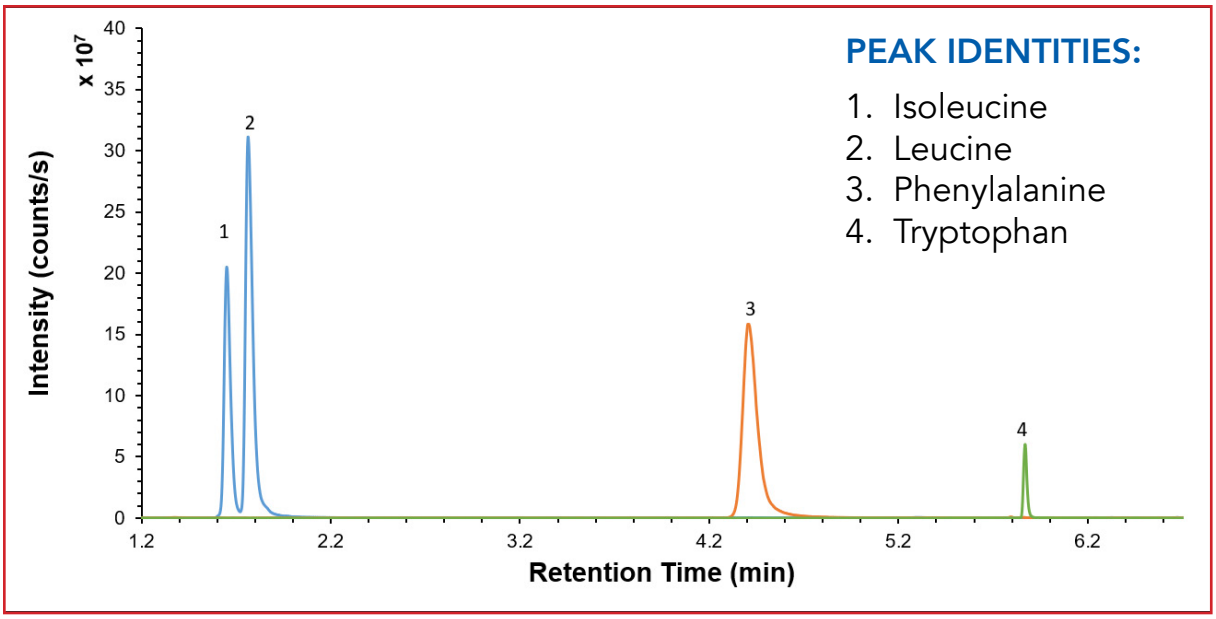

PEAK IDENTITIES:

1. Isoleucine
2. Leucine
3. Phenylalanine
4. Tryptophan

TEST CONDITIONS:

Column: HALO 90 AQ-C18, 2.7 µm 1.5 x 150 mm
Part Number: 9281X-722
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	0
1.5	0
12.0	95
14.0	95

Flow Rate: 0.2 mL/min
Temperature: 35 °C
Injection Volume: 1 µL
Sample Solvent: 98/2 5mM ammonium acetate/ methanol
LC System: Shimadzu Nexera X2

MS CONDITIONS:

System: ThermoFisher Q Exactive HF Hybrid Orbitrap
Spray Voltage (kV): 3.5
Capillary Temperature: 350 °C
Sheath gas: 40
Aux gas: 15
RF lens: 40

Metabolites from a yeast extract were separated using a HALO® 1.5 mm ID 90 Å AQ-C18, 2.7 µm column. The isomers leucine and isoleucine are baseline resolved by the use of an isocratic hold at 0% B enabled by the 100% aqueous compatibility of the HALO® AQ-C18 phase. 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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