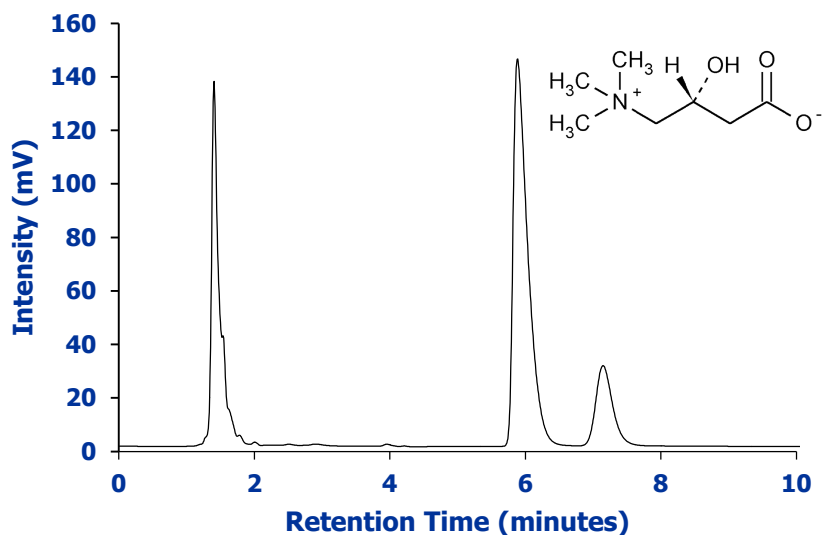


Separation of Carnitine and Impurities

ZIC[®]-HILIC

Chromatographic Conditions

Column:	SeQuant [®] ZIC [®] -HILIC 150x4.6 mm, 5 μ m, 200 Å	1.50455.0001
Injection:	20 μ L	
Detection:	UV 205 nm	
Flow Rate:	1.0 mL/min	
Mobile Phase (v/v):	Acetonitrile and Potassium Dihydrogen phosphate (KH ₂ PO ₄) 20 mM, pH 4.2. Mix Acetonitrile and buffer 70:30.	
Temperature:	30°C	
Diluent	Mobile phase	
Sample:	L-Carnitine and impurity A	



Chromatographic Data

No.	Compound	Time (min)	Retention Factor (k')	Resolution
1	L-Carnitine	5.9	2.9	-
2	Impurity A	7.1	3.7	3.1