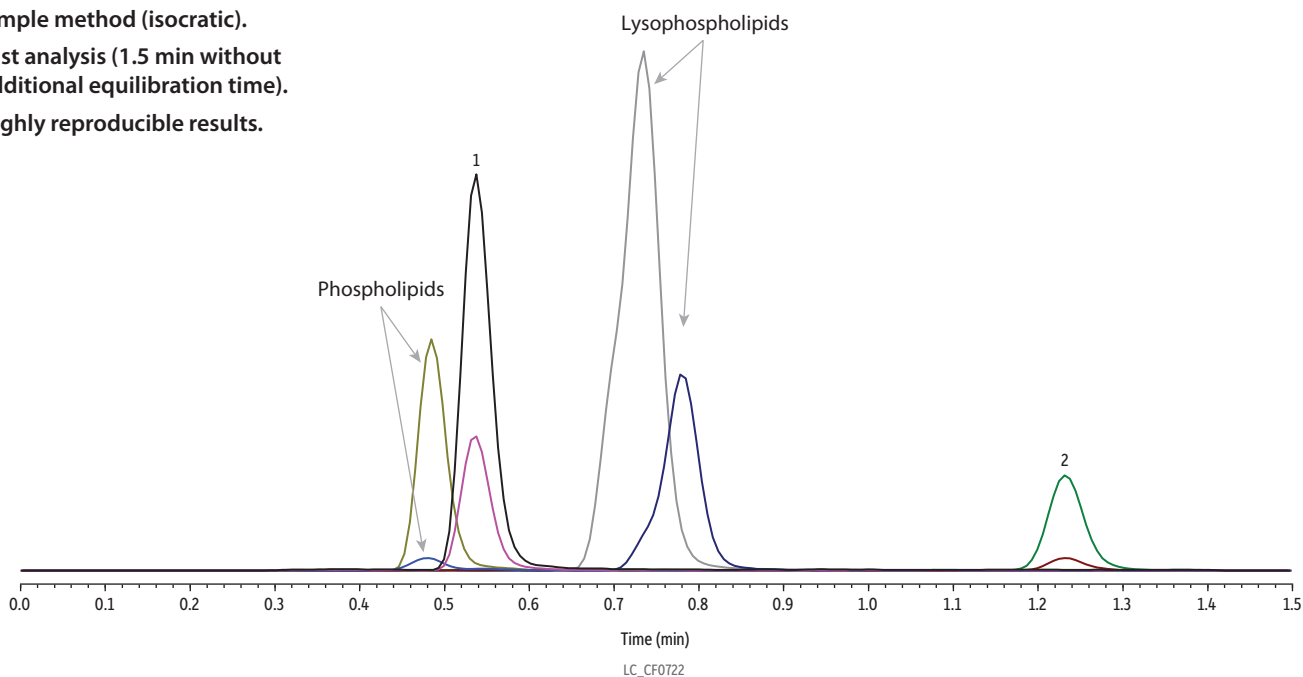


Creatine and Creatinine in Human Plasma on Raptor HILIC-Si by LC-MS/MS

- Simple method (isocratic).
- Fast analysis (1.5 min without additional equilibration time).
- Highly reproducible results.



Peaks	tr (min)	Precursor Ion	Product Ion	Product Ion
1. Creatinine	0.537	114.0	44.3	86.0
2. Creatine	1.232	132.1	43.3	90.2

Column Raptor HILIC-Si (cat.# 9310A52)
 Dimensions: 50 mm x 2.1 mm ID
 Particle Size: 2.7 µm
 Pore Size: 90 Å
 Guard Column: UltraShield UHPLC precolumn filter 0.2 µm (cat.# 25810)
 Temp.: 40 °C

Standard/Sample
 Diluent: 20:80 Water:acetonitrile
 Conc.: Endogenous levels
 Inj. Vol.: 0.2 µL

Mobile Phase
 A: 5 mM Ammonium formate in 20:80 water:acetonitrile

Time (min)	Flow (mL/min)	%A
0.00	0.5	100
1.5	Stop	

Detector MS/MS
 Ion Mode: ESI+
 Mode: MRM
Instrument UHPLC

Sample Preparation Endogenous levels of creatinine and creatine in human plasma were determined using a single protein precipitation step followed by LC-MS/MS analysis. A 50 µL aliquot of human plasma (K2EDTA) was mixed with 950 µL acetonitrile. After vortexing and centrifuging at 4300 rpm for 10 min, 200 µL of the supernatant was transferred to a new vial and mixed with 50 µL of water. Centrifugation was performed again before injection.