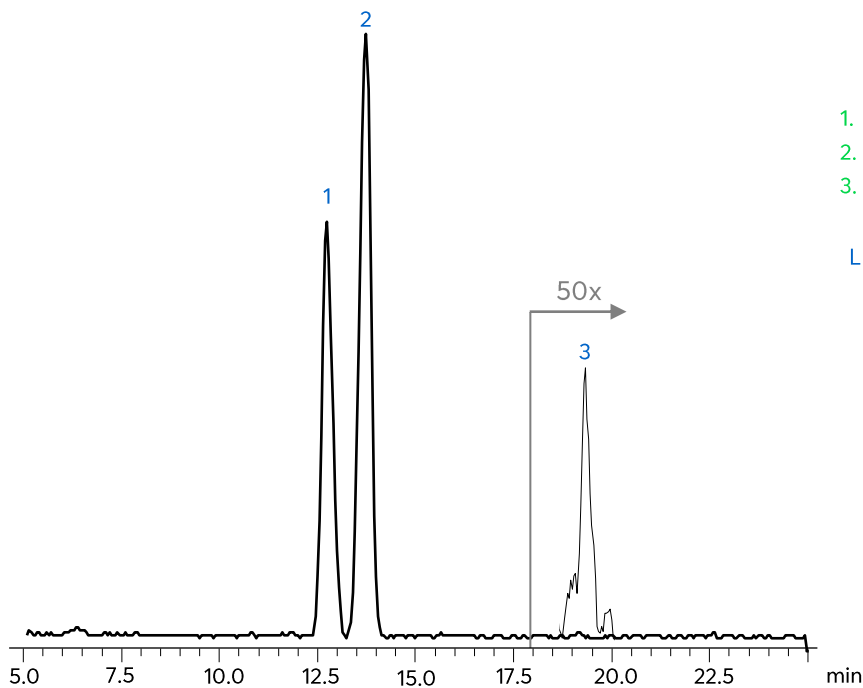


Silver Monolayer-Protected Clusters by Capillary LC-MS



1. Ag₂₉L₁₂ (Isomer #1)
2. Ag₂₉L₁₂ (Isomer #2)
3. Dimer-like cluster

L = (R) - α lipoic acid

Method Details

CONDITIONS

Columns: Avantor® ACE® 3 C18-300
 Particle Size: 3 µm
 Dimensions: 150 x 0.5 mm
 Mobile Phase: A: 400 mM hexafluoroisopropanol, 15 mM triethylamine in H₂O
 B: Methanol

Gradient:

Time (mins)	% B
0	30
20	50
20.1	100
25	100

Flow Rate: 10 µL/min
 Injection Volume: 5 µL
 Temperature: Ambient
 Detection: Bruker micrOTOF MS
 MicroESI in negative ion mode
 Electrospray emitter potential: 3500V
 Nebulizer pressure: 4.0 bar
 Sheath gas: Off
 Sample: Synthetic mixture

Silver monolayer-protected clusters are of growing interest due to their electrical properties and potential applications for drug delivery and sensors in the biosciences. Nanoparticle analysis was carried out by capillary-flow ion-pair reversed-phase HPLC.

ORDERING TABLE

Product	Details	Size	Part number
Avantor® ACE® 3 C18-300	HPLC Column	150 x 0.5 mm	ACE-211-15005

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