

Gold Monolayer-Protected Clusters by Capillary LC-MS

ACE[®]
Ultra-inert
UHPLC & HPLC Columns

Application #AN4770

Conditions

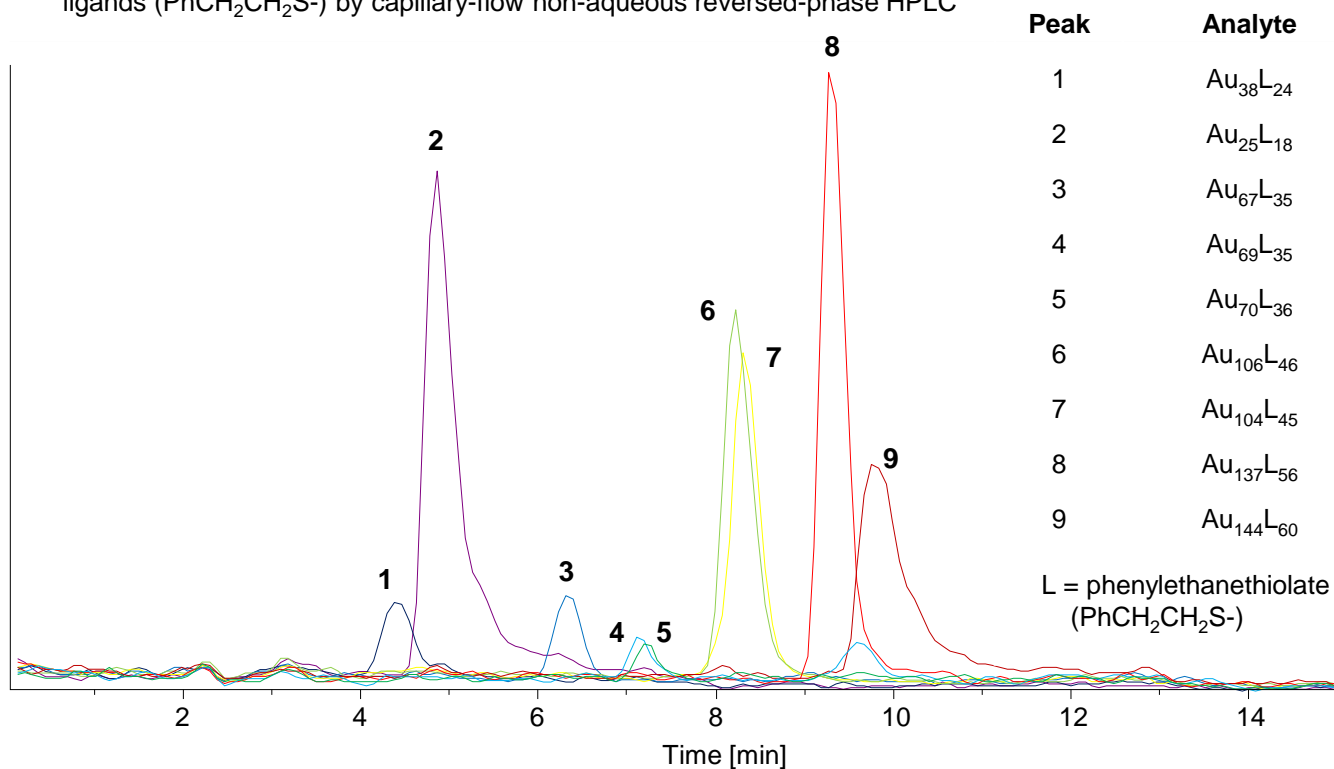
Column: ACE 3 Phenyl-300
Dimensions: 150 x 0.5 mm
Part Number: ACE-215-15005
Mobile Phase: A: 0.1mM triethylammonium acetate in methanol
B: 0.1mM triethylammonium acetate in dichloromethane

Time (mins)	%B
0	50
10	100
12	100
15	50

Flow Rate: 15 μ L/min
Injection: 2.5 μ L
Detection: Bruker micrOTOF MS
MicroESI in positive ion mode
Electrospray emitter potential: +4500V
Nebulizer pressure: 1.5 bar
Sheath gas: 3.0 l/min
Sample: Synthetic mixture of gold[-thiolate] clusters

Gold 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 of gold[-thiolate] clusters comprising 25 to 144 gold atoms and 18 to 60 thiolate ligands (PhCH₂CH₂S-) by capillary-flow non-aqueous reversed-phase HPLC



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