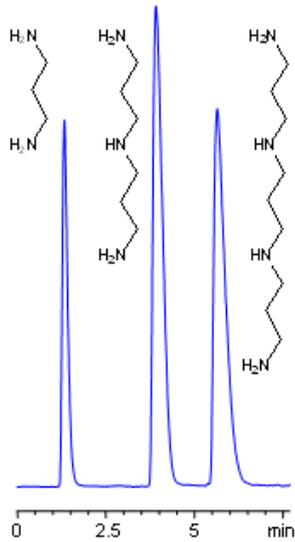


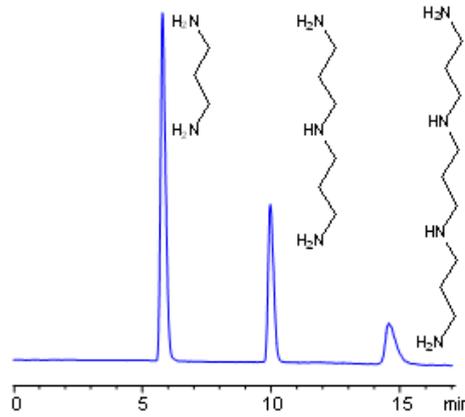
HPLC Separation of Polyamines

Column: Primesep 200; 10 x 3.2 mm
 Flow rate: 0.5 ml/min.
 Detection: ELSD
 Mobile phase: ACN/Water-20/80 with TFA
 gradient 0.05-0.35% in 6 min



1. 1,3-diaminopropane
2. N-(3-aminopropyl)-1,3-propanediamine
3. N,N'-bis-(3-aminopropyl)-1,3-propanediamine

Column: Primesep C, 50 x 4.6 mm
 Mobile phase: MeCN – 20%, gradient
 AmAc 25-0 mM pH 4.0 and AmFm 0-
 25 mM pH 3.0 in 10 min + 10 min hold
 Flow rate: 1.0 mL/min
 Injection: 5uL



Primesep 200 separates the very hydrophilic polyamines, 1,3-diaminopropane, N-(3-aminopropyl)-1,3-diaminepropane, N,N-bis-(3-aminopropyl)-1,3-diaminepropane. The retention and resolution are affected by either a TFA concentration gradient, or a pH gradient from pH 4 to 3. This flexibility is obtained by simple mobile phases of water, acetonitrile (MeCN, ACN), ammonium formate, ammonium acetate or trifluoroacetic acid (TFA) with evaporative light scattering detection (ELSD).

Method Parameters

Detection	UV Detection
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Quelle: <https://sielc.com/Application-HPLC-Separation-of-Polyamines>