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APPLICATION NOTE

Application 1936 - HPLC

Fatty acids

Fatty Acids

Column: Polaris™ 3μ C18-A, 30 x 4.6mm
Part nr.: A2001030X046
Eluent: A: H₂O + 0.1% HCOOH B: MeCN + 0.1% HCOOH A:B = 5:95
Flow: 1.5 mL/min
Detection: UV @ 205 nm
Sample: 1. linolenic acid, 2. linoleic acid, 3. oleic acid
Injection Volume 2 μL

Three 18-carbon fatty acids are separated in under 52 seconds using an isocratic eluent.

Oleic = CH₃(CH₂)₇CH=CH(CH₂)₇COOH

Linoleic = CH₃(CH₂)₄CH=CHCH₂CH=CH(CH₂)₇COOH

Linolenic = CH₃CH₂CH=CHCH₂CH=CHCH₂CH=CH(CH₂)₇COOH

