Fatty acids

Application Note

Materials Testing & Research

Authors

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Introduction

HPLC with an Agilent Polaris C18-A column separates three 18-carbon fatty acids in under 52 seconds using an isocratic eluent.

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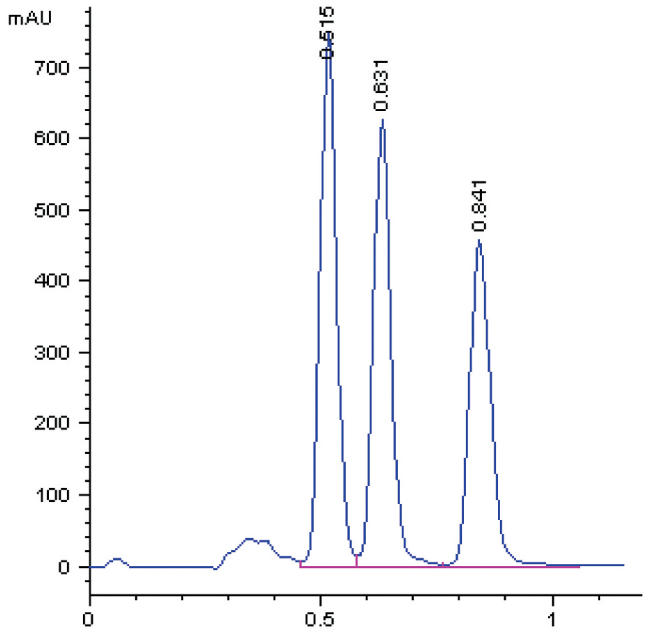
Conditions

Column	:	Agilent Polaris C18-A, 4.6 x 30 mm, 3 µm
Part no.	:	A2001030X046
Eluent	:	A: H_2O + 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 = $CH_3(CH_2)_7CH=CH(CH_2)_7COOH$
linoleic = $CH_3(CH_2)_4CH=CHCH_2CH=CH(CH_2)_7COOH$
linolenic= $CH_3CH_2CH=CHCH_2CH=CHCH_2CH=CH(CH_2)_7COOH$



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