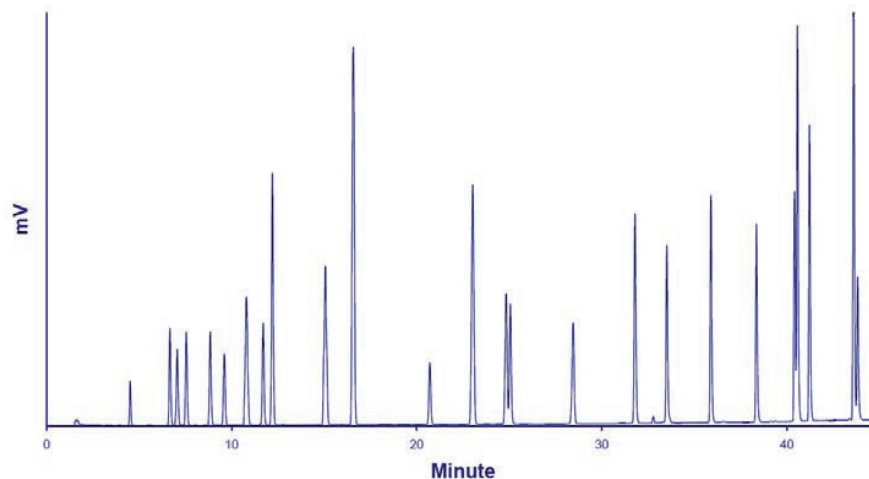


Generic HPLC/LT-ELSD Method for Lipids



Chromatogram of the Simultaneous HPLC/LT-ELSD Analysis of Fatty Acids, Fatty Alcohols, Fat-Soluble Vitamins, Mono-, Di- and TriGlycerides and Related Compounds.

Standard mixture: 25 Compounds (see Table next slide)

Injection volume: 2 μ L

Column: Hypersil GOLD (1,9 μ m, 2,1 x 200mm), 60°C

Flowrate: 0.3mL/min

Eluent: A: MeOH/ACN/H₂O/Formic acid (500:300:198:2) - B: MeOH/Acetone/Formic acid (598:400:2)

Gradient: 0-3 minutes: 100%A, 3-43 minutes: from 100%A to 100%B

Detector: SEDEX 90LT, 28°C, 3.5Bars

SEDEX LT-ELSD: S90 Applications

SEDEX **LT-ELSD**[™]

Generic HPLC/LT-ELSD Method for Lipids

	RT	%RSD (n=6)		LOD (S/N=3)
	Minutes	RT	Response	ng (o.c.)
1 - Lauric acid	4.87	0.22	4.7	16.2*
2 - Linolenic acid	7.17	0.21	3.3	4.1
3 - Myristic acid	7.58	0.21	2.1	1.6
4 - Retinol (Vit A)	8.10	0.20	3.3	3.6
5 - Linoleic acid	9.43	0.20	2.1	5.1
6 - Monolein	10.21	0.14	3.3	4.8
7 - Palmitic acid	11.43	0.25	2.9	0.8
8 - Oleic acid	12.35	0.23	2.0	5.7
9 - Hexadecanol	12.88	0.12	4.6	2.1
10 - Stearic acid	15.77	0.16	2.2	0.5
11 - Octadecanol	17.32	0.11	2.6	0.5
12 - Eicosanol	21.63	0.06	3.1	0.7
13 - Cholesterol	23.80	0.17	2.8	1.3
14 - Docosanol	25.57	0.06	3.2	0.9
15 - a-Tocopherol (Vit E)	25.80	0.05	2.9	3.8
16 - Vitamin K	29.20	0.02	3.6	3.8
17 - Squalene	32.54	0.12	2.0	2.4
18 - Diolein	34.13	0.05	2.8	2.3
19 - Trilaurin	36.50	0.10	3.1	2.1
20 - Trilinolenin	38.90	0.08	4.0	2.5
21 - Trimyristin	40.97	0.08	4.7	1.7
22 - Coenzyme Q10	41.09	0.03	2.7	1.8
23 - Trilinolein	41.73	0.06	3.6	1.9
24 - Tripalmitin	44.09	0.06	3.9	1.7
25 - Triolein	44.29	0.06	4.5	1.1

* Semi-volatile compound



SENSITIVITY
FLEXIBILITY
EXPERIENCE

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