

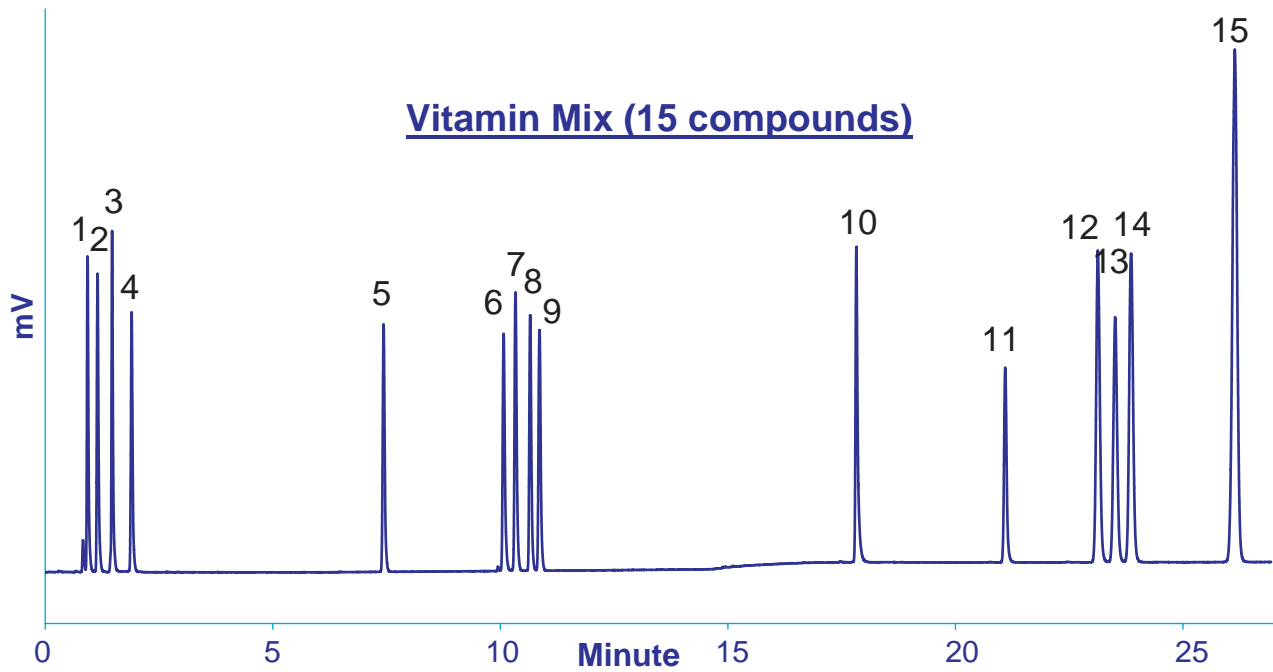
Scherzo SM-C18

150 x 2 mm

Application

## Simultaneous HPLC/LT-ELSD Analysis of Water- and Fat-Soluble Vitamins

LT-ELSDによる水溶性および脂溶性ビタミンの一斉分析



	RT	%RSD (n=6)		LOD (S/N=3)
	Minutes	RT	Response	ng (o.c.)
1-B1: Thiamine	0.92	0.11	2.6	5.7
2-B8: myo-Inositol	1.14	0.09	6.2	6.3
3-B6: Pyridoxine	1.44	0.16	2.7	1.8
4-C: Ascorbic acid	1.94	0.25	2.4	9.6
5-B5: Pantothenic acid	7.32	0.15	6.8	6.9
6-B9: Folic acid	9.92	0.09	3.1	8.0
7-B12: Cyanocobalamin	10.17	0.11	4.1	4.6
8-B2: Riboflavin	10.49	0.11	3.4	5.0
9-B7: Biotin	10.70	0.09	4.2	4.8
10-A: Retinol	17.64	0.06	6.7	1.7
11-K2: Menaquinone	20.87	0.07	2.1	14.2
12-D2: Ergocalciferol	22.89	0.06	1.5	47.6
13-D3: Cholecalciferol	23.26	0.06	2.6	52.6
14-E: α-Tocopherol	23.61	0.07	1.6	45.0
15-K1: Phylloquinone	25.86	0.07	1.7	41.7

Scherzo SM-C18, 150 x 2 mm  
 A: H<sub>2</sub>O + 0.3% HCOOH  
 B: acetonitrile  
 0%B (0-0.1 min)  
 0 - 30%B (0.1-10 min)  
 30%B (10-11 min)  
 30 - 100%B (11- 12 min)  
 100%B (12-26 min)  
 0.3 mL/min, 30°C  
 2uL(DMSO soln.)

ELSD (SEDERE, France)  
 SEDEX 90LT, 40°C, 3.5Bar

Data provided by Dr. Eric VERETTE, SEDERE S.A.S., France