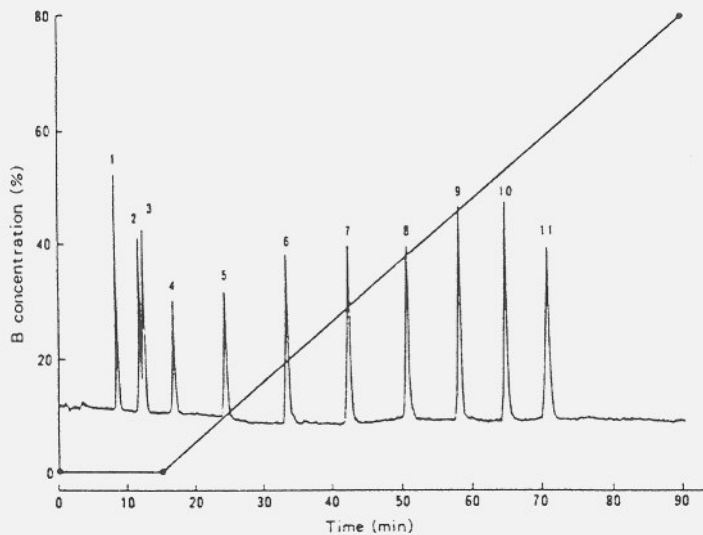


Measurement of vitamin K in human liver by gradient elution HPLC using platinum black catalyst reduction and fluorimetric detection

Method: HPLC	Matrix liver	Application-No.: 109730
Substances:	vitamin k	
Column:	NUCLEOSIL® 100-5C18, 250 x 4.6mm ID	
Phase:	Nucleosil 100-5 C18	
MN catalog number:		
Sample pretreatment:	were significantly lower than in normal livers (n=6).	
Conditions:	eluent A: methanol eluent B: 2-propanol - ethanol (4:1, v/v) 15min isocratic eluent A, then linear gradient from 0 to 80% B in 75min flow rate 1ml/min	
Detection Subsequent analysis:	fluorescence after postcolumn reduction with platinum black powder, excitation 320nm, emission 430nm	
Author(-s):	Usui Y.	
Source:	J. Chromatogr. 489 (1989) 291 - 301	
Keywords:	vitamins	

Chromatogram:



Legend:

Fig. 4. Chromatogram of vitamin K standards analyzed by gradient elution and the gradient profile in terms of mobile phase B, 1. MK-4, 2. MK-5, 3. phylloquinone, K1 (200pg each), 4. - 11. = MK-6 - MK-13, MK-6 200pg, MK-7 350pg, MK-8 and MK-9 500pg, MK-10 600pg, MK-11 700pg, MK-12 and MK-13 800pg each.

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