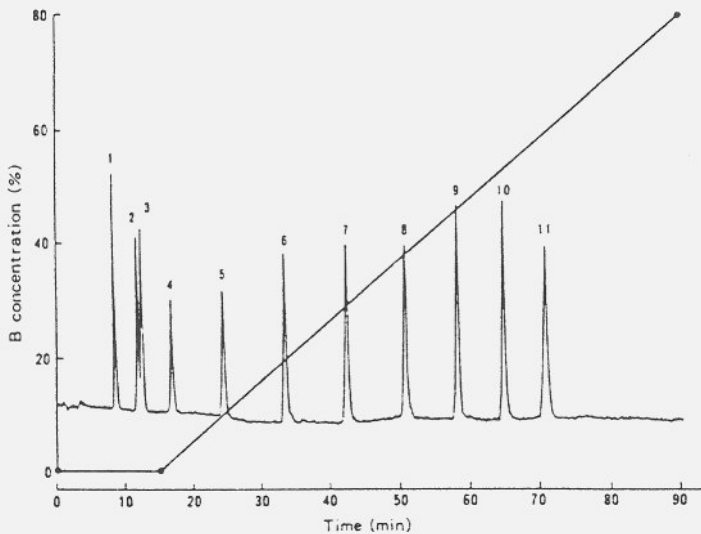


# Measurement of vitamin K in human liver by gradient elution HPLC using platinum black catalyst reduction and fluorimetric detection

<b>Method:</b> HPLC	<b>Matrix</b> liver	<b>Application-No.:</b> 109730
<b>Substances:</b>	vitamin k	
<b>Column:</b>	NUCLEOSIL® 100-5C18, 250 x 4.6mm ID	
<b>Phase:</b>	Nucleosil 100-5 C18	
<b>MN catalog number:</b>		
<b>Sample pretreatment:</b>	were significantly lower than in normal livers (n=6).	
<b>Conditions:</b>	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	
<b>Detection Subsequent analysis:</b>	fluorescence after postcolumn reduction with platinum black powder, excitation 320nm, emission 430nm	
<b>Author(-s):</b>	Usui Y.	
<b>Source:</b>	J. Chromatogr. 489 (1989) 291 - 301	
<b>Keywords:</b>	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.

AUTHORIZED DISTRIBUTOR

MZ-Analyse-technik GmbH, Barcelona-Allee 17 • D-55129 Mainz

Tel +49 6131 880 96-0, Fax +49 6131 880 96-20

e-mail: [info@mz-at.de](mailto:info@mz-at.de), [www.mz-at.de](http://www.mz-at.de)

