

Analysis of vitamins, B1, B2, and B6

The sample containing Vitamins B1, B2 and B6 were measured by a gradient elution method with mobile phase 0.1M KH_2PO_4 + 1mM 1-Pentanesulfonic acid sodium salt / acetonitrile. A silica C18 column, Finepak SIL C18S was used as a separation column. Fig.1 shows the chromatogram obtained by injection of 5 μl of the sample which is prepared by dissolving Vitamin B1, B2 and B6 at the concentration of 0.5mg/ml in mobile phase.

Conditions:

Pump:	PU-980
Detector :	UV-970
Wavelength :	242 nm
Column :	Finepak SIL C18S
Eluent :	A : 0.1M KH_2PO_4 + 1mM 1-Pentanesulfonic acid sodium salt / CH_3CN (97 / 3)
	B : 0.1M KH_2PO_4 + 1mM 1-Pentanesulfonic acid sodium salt / CH_3CN (50 / 50)
Flow rate :	1.0 ml/min
Sample :	Vitamin B1 Vitamin B2 Vitamin B6

Fig. 1

Eluent
 A : 0.1M KH_2PO_4 + 1mM 1-Pentanesulfonic acid sodium salt / CH_3CN (97 / 3)
 B : 0.1M KH_2PO_4 + 1mM 1-Pentanesulfonic acid sodium salt / CH_3CN (50 / 50)

Gradient

A/B=(100/0) $\xrightarrow[5 \text{ min}]{\text{Hold}}$ (100/0) $\xrightarrow[5 \text{ min}]{\text{Linear}}$ (0/100) $\xrightarrow[10 \text{ min}]{\text{Hold}}$ (0/100)

