

Analysis of vitamin B1 in health drink

Vitamin B1 in nutritional drink was analyzed by using the post column derivatization method with a fluorescence detector. Potassium ferricyanide was used as a reagent. The chromatograms obtained by injecting 10ul samples of drink (1) and (2) were shown in Fig.1 and Fig.2.

Conditions:

Detector :	Fluorescence detector
Wavelength :	Ex. 372nm, Em. 460nm
Sensitivity :	x 100, x 8
Column :	Finepak SIL C18S
Eluent :	1mM 1-Hexanesulfonic acid sodium salt + 0.1M KH ₂ PO ₄ (pH 3.6) / CH ₃ OH (90/10)
Flow rate :	0.5 ml/min
Temperature :	70 degree celsius
Reagent :	10% NaOH + 0.01% K ₃ [Fe(CN) ₆]
Reagent flow rate :	0.5 ml/min
Reaction coil :	0.5mm diameter x 5m long
Reaction temperature:	70 degree celsius
Sample :	Tonic drink (1)
	Tonic drink (2)

