

Fat soluble Vitamins by HPLC with electrochemical detection

Method
HPLC

VFD0062J
RP Mode

Column: Eurospher 100-5 C18, 250 x 4.6 mm ID

Order No. 25EE181ESJ

Sample Preparation: Vitamins in carrot juice, extracted with Methanol

Phase: Eurospher 100-5 C18

Conditions:
Eluent: Methanol with 2 g/l LiClO₄ and 1 g/l Acetic acid
Gradient: isocratic
Flow rate: 1.5 ml/min
Temperature: 25 °C
Volume: 10 µl (20 ng of each standard)

Detection: electrochemical, glassy carbon working electrode,
left +1000 mV, right +800 mV

Substances: Vitamin A Acetate, α-Tocopherol, β-Carotene

Keywords: Vitamins

Chromatogram:

1. Vitamin A Acetate
2. α-Tocopherol
3. β-Carotene

