Determination of Orotic acid in milk

Method

HPLC

VFD0134J_E

Column: Eurokat H, 10 µm, 300 x 8 mm

Order No. 30GX340EKN

Phase: Eurokat H, 10 µm

Eluent: 0.01 N Sulfuric acid

Gradient: Isocratic

Flow rate: 0.6 ml/min

Temperature: 60 °C

Volume: 20 µL (Standard)

Detection: UV, 210 nm

Substances: Orotic acid, Lactic acid and Acetic acid

Keywords: Orotic acid, Eurokat H, Vitamin B13, dietary supplement

Sample preparation: Five gram of milk were filled up to 25 ml with 4 mM H2SO4, centrifuged for 10 min with 2000 rpm, filtrated (0.45 µm) and diluted 1:10 before 5 µl were injected for analysis.

Chromatogram:

Milk sample:

1 Impurity
2 Orotic acid 2,2 µg/ml

Standard:

1 Orotic acid 15,6 µg/ml
2 Lactic acid
3 Acetic acid