

Analysis of Surfactants in toothpastes by HPLC

Method
HPLC

VEV0029J
RP Mode

Column: Eurospher 100-5 C18, 250 x 4.0 mm ID

Order No. 25DE181ESJ

Phase: Eurospher 100-5 C18

Conditions: Eluent: MeOH / Water (90:10) + 0.25 M NaClO₄
Gradient: isocratic
Flow rate: 1.5 ml/min
Temperature: 25 °C
Volume: 20 µl

Detection: Refractive Index (RI)

Substances: Sodium soap (C8 - C18),
Sulpho fatty acid- α -methyl esters (C10 - C18)

Keywords: Surfactants

Chromatogram:

Sodium soaps:

1. (C8)
2. (C10)
3. (C12)
4. (C14)
5. (C16)
6. (C18 =)
7. (C18)

α -sulpho fatty acid methyl esters:

1. (C10)
2. (C12)
3. (C14)
4. (C16)
5. (C18)

