

Stilbene and Flavonoids in red wine samples

Method
HPLC

VFD0043J
RP Mode

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

Order No. 25DE181ESJ

Phase: Eurospher 100-5 C18

Conditions:

Eluent: A: MeOH / Water (50:50) (pH 3 with TFA)
B: MeOH / Water (80:20) (pH 3 with TFA)
C: MeOH / Water (20:80) (pH 3 with TFA)

Gradient: 0 – 5 min 90% A 10% C → 100% A
5 – 8 min 100% A → 70% A 30% B
8 - 12 min 70% A 30% B → 20% A 80% B
12 - 14 min 20% A 80% B → 100% B
14 - 16 min 100% B isocratic

Temperature: 40 °C
Flow rate: 1.0 ml/min
Volume: 20 µl

Detection: UV at different wavelength
(Resveratrol: 305 nm, Myrcetine: 254/365nm, Quercetine: 365 nm, Caempferol: 265/365 nm)

Substances: trans-Resveratrol, cis-Resveratrol, Myrcetine, Quercetine, Caempferol

Keywords: Stilbene, Flavonoids

Chromatogram:

1. trans Resveratrol
2. Myrcetine
3. cis Resveratrol
4. Quercetine
5. Caempferol

