

Determination of Naringine and Hesperidine in Fruit Juices

Method VFD0002J
HPLC

Column: Eurospher 100-5 C18, 250 x 4 mm

Order No. 25DE181ESJ

Phase: Eurospher 100-5 C18

Conditions: Eluent: 5 mM ammonium acetate / ACN 75 : 25 (v/v), adjusted to pH 4.45 with acetic acid
Gradient: Isocratic
Flow rate: 1.0 ml/min
Temperature: 40 °C
Volume: 5 µL

Detection: UV, 285 nm

Sample pretreatment: Protein precipitation was carried out on 50 ml of each fruit juice being examined with 1 ml each of Carrez I and II solutions. The samples were centrifuged and the supernatant was filtered through a 0.45 µm membrane. The injection volume for the standards and fruit juice samples was 5 µl. Since the stability of the sample solution is limited, sample measurement must take place within 24 h of sample preparation.

Substances: Naringine, Hesperidine

Keywords: Fruit juice, Flavonoids, Polyphenols, Naringine, Hesperidine, AZURA Compact

Chromatogram:

Sample chromatogram
Of fruit juice (blue) overlaid with
calibration standard (red)

1 Hesperidine
2 Naringine

