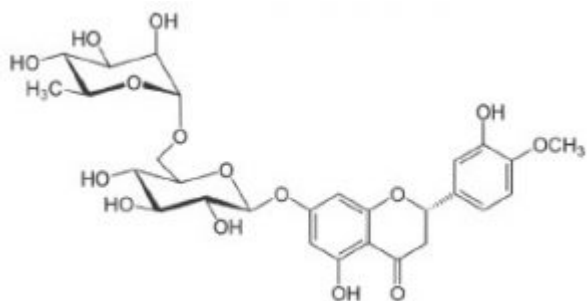
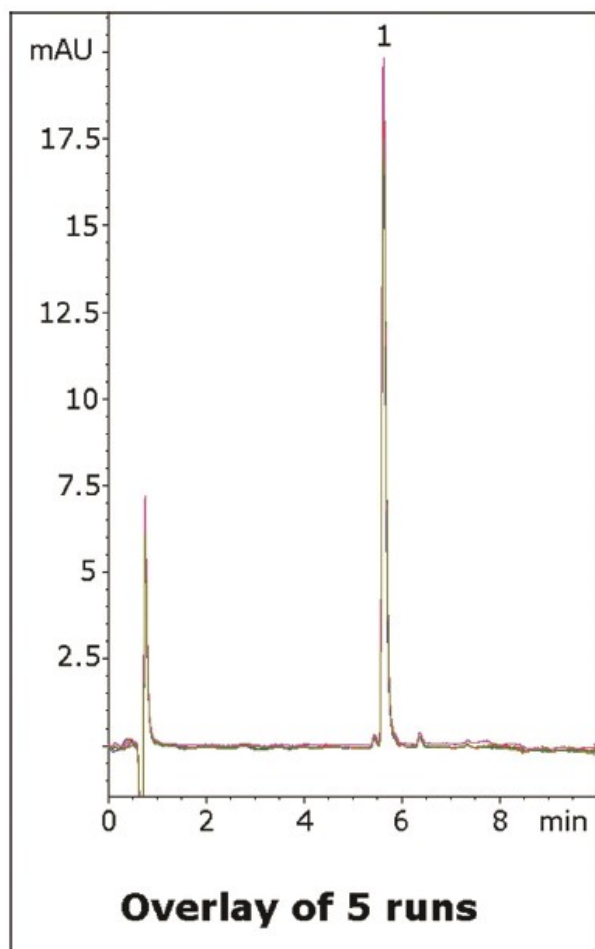


Hesperidin Analyzed with HPLC – AppNote

LC-MS compatible method

This method for analysis of Hesperidin produces an excellent analyte peak and shows separation from what appears to be two impurity peaks. The gradient method is LC-MS compatible and can be applied to many types of Hesperidin-containing samples such as citrus fruit extracts. The overlay of five runs shown in the figure illustrates the run-to-run reproducibility of the data.



Peak:

Hesperidin

Method Conditions

Column: Cogent Bidentate C18 2.o, 2.2µm, 120Å

Catalog No.: [40218-05P-2](#)

Dimensions: 2.1 x 50 mm

Mobile Phase:

A: DI Water / 0.1% Formic Acid (v/v)

B: Acetonitrile / 0.1% Formic Acid (v/v)

Gradient:

Time (minutes)	%B
0	10
1	10
9	70
10	10

Post Time: 5 minutes

Injection vol.: 1µL

Flow rate: 0.3mL/minute

Detection: UV @ 285nm

Sample: 100 ppm Hesperidin reference standard in 1:1 DMSO: Methanol diluent

t₀: 0.6 minutes

Note: *Hesperidin is a naturally occurring glycoside polyphenol that is thought to have antioxidant properties.*

Studies suggest it may have a number of pharmaceutical applications due to possible anti-inflammatory, anti-cancer, and cholesterol and blood pressure lowering effects. Its name comes from the word “hesperidium”, which is the type of fruit produced by citrus trees.



Attachment

No 289 Hesperidin Analyzed by HPLC pdf 0.3 Mb [Download File](#)

Printed from the Chrom Resource Center

MicroSolv Technology Corporation

9158 Industrial Blvd. NE, Leland, NC 28451

tel. (732) 380-8900, fax (910) 769-9435

Email: customers@mtc-usa.com

Website: www.mtc-usa.com

Date: 03-05-2024