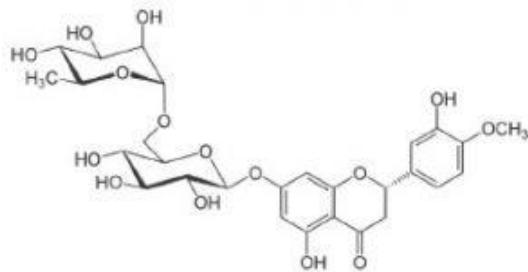
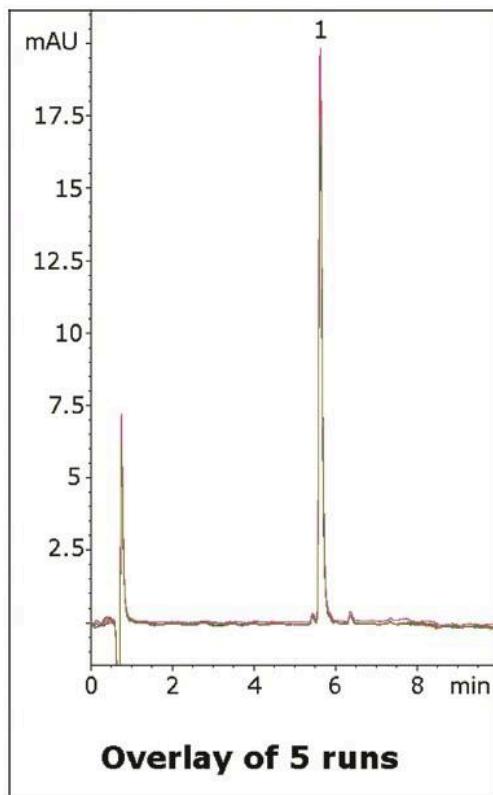




## Hesperidin Analyzed with HPLC - AppNote

### 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 2.0, 2.2 $\mu$ m, 120 $\text{\AA}$

**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.:** 1 $\mu$ L

**Flow rate:** 0.3mL/minute

**Detection:** UV @ 285nm

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

**t<sub>0</sub>:** 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

Copyright 2025, All Rights Apply

**MicroSolv Technology Corporation**

9158 Industrial Blvd. NE, Leland, NC 28451

Tel: (732) 380-8900

Fax: (910) 769-9435

Email: [customers@mtc-usa.com](mailto:customers@mtc-usa.com)

Website: [www.mtc-usa.com](http://www.mtc-usa.com)