

## 5 Phenolic Compounds Separated by LCMS - AppNote

## **Commercial Rice Extract Analyzed Easily.**

Click **HERE** for Column Ordering Information.

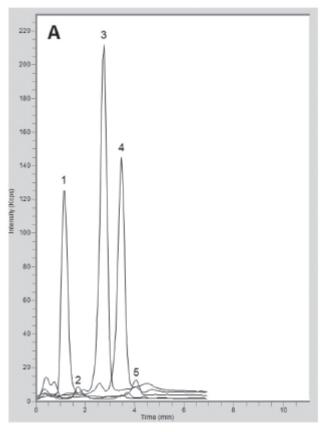
A commercial rice extract was analyzed and peaks were assigned based on retention times and m/z values for the compounds of interest using the Cogent Phenyl Hydride Column . After method validation the developed procedure can be used to evaluate the quality of rice and to develop the best extraction procedure.

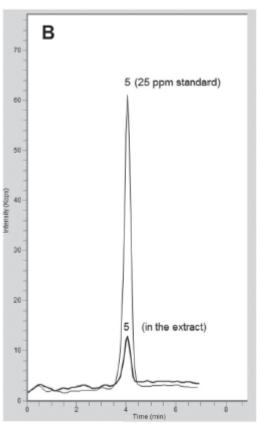
Printed from the Chrom Resource Center
Copyright 2024, All Rights Apply
MicroSolv Technology Corporation

9158 Industrial Blvd. NE, Leland, NC 28451 tel. (732) 380-8900, fax (910) 769-9435

Email: customers@mtc-usa.com







Printed from the Chrom Resource Center Copyright 2024, 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



## Peaks:

1. 3,4-Hydroxybenzoic Acid 153 m/z [M-H]-

2. Vanillic Acid 167 m/z [M-H]-

3. p-Coumaric Acid 163 m/z [M-H]-

4. Ferulic Acid 193 m/z [M-H]-

5. 3,5-Dimethoxy-4-Hydroxycinnamic Acid 223 m/z [M-H]-

## **Method Conditions**

Column: Cogent Phenyl Hydride™, 4µm, 1 00Å

**Catalog No.:** 69020-05P-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
5	20
6	20
7	10

Post Time: 3 minutes
Injection vol.: 1µL

Flow rate: 0.4 mL/minute

Detection: ESI - NEG - PerkinElmer Flexar SQ 300 Mass Spectrometer

**Samples:** 

to: 0.4 minutes

in rice.

Figure A: Commercial rice extract was analyzed.

Figure B: Peak of 3,5-Dimethoxy-4-Hydroxycinnamic Acid in commercial rice extract overlaid with the

peak for 25 ppm standard.

Printed from the Chrom Resource Center

Copyright 2024, All Rights Apply

MicroSolv Technology Corporation
Note: Rice is a staple food in many countries. It contains phenolic compounds which have anticancer, antioxidant,
9158 Industrial Blvd. NE, Leland, NC 28451
and antimutagenic effects. It is important to analyze rice extracts to confirm the content of the phenolic compounds

tel. (732) 380-8900, fax (910) 769-9435 Email: customers@mtc-usa.com





**Attachment** 

No 297 Phenolic Compounds Separated pdf 0.3 Mb Download File

Printed from the Chrom Resource Center
Copyright 2024, 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