

5 Phenolic Compounds Separated by LCMS - AppNote

Commercial Rice Extract Analyzed Easily.

Click **HERE** for Column Ordering Information.

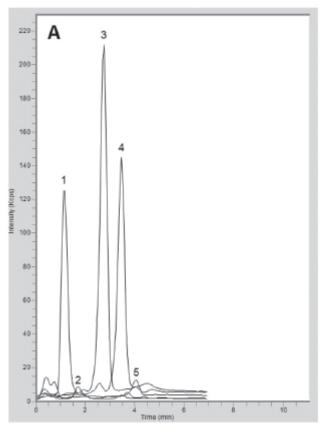
A commercial rice extract was analyzed and peaks were assigned based on retention times and m/z values for the compounds of interest using the Cogent Phenyl Hydride Column . After method validation the developed procedure can be used to evaluate the quality of rice and to develop the best extraction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

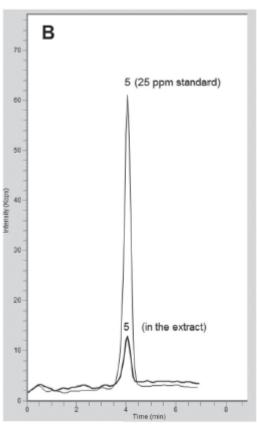
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Peaks:

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.

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Note: Rice is a staple food in many countries. It contains phenolic compounds which have anticancer, antioxidant,
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and antimutagenic effects. It is important to analyze rice extracts to confirm the content of the phenolic compounds

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Attachment

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