

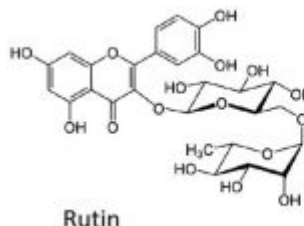
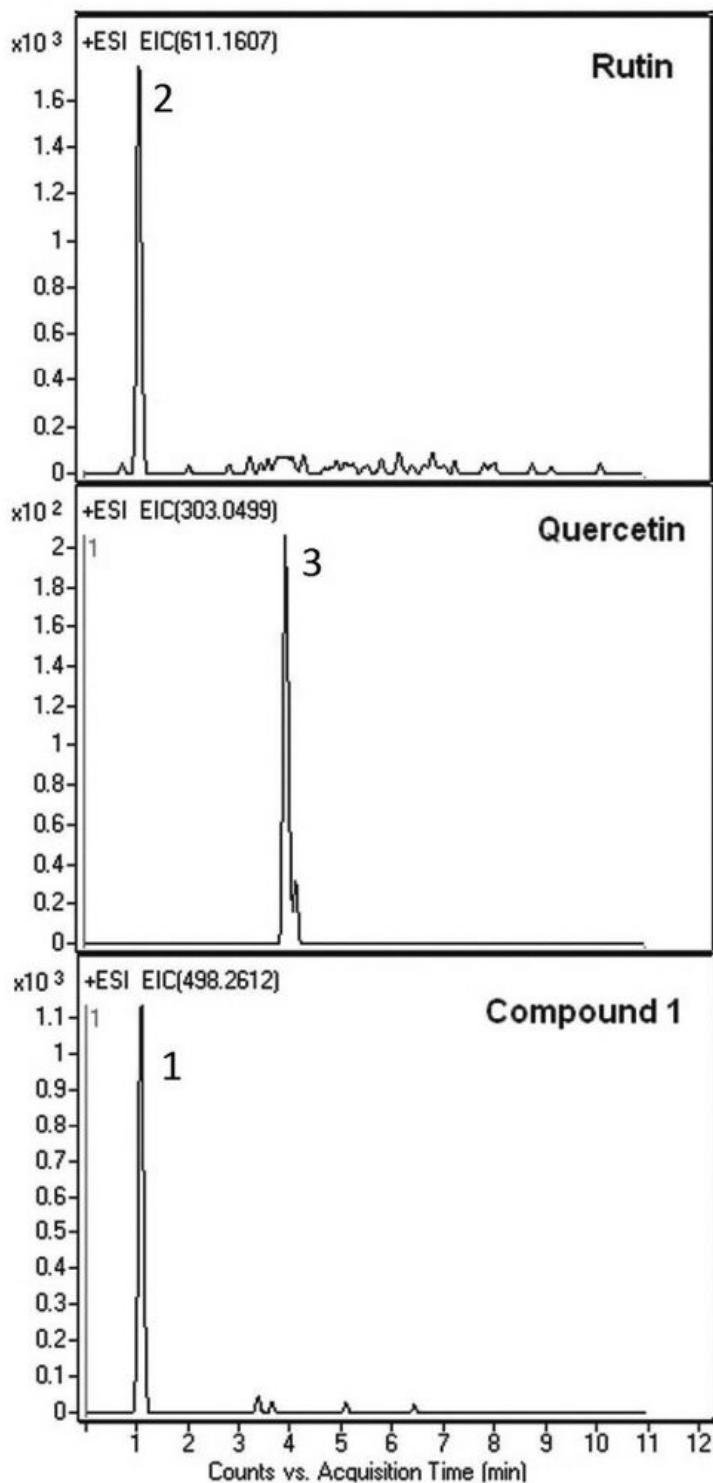
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## Brazilian Tree Bark Analyzed with LCMS - AppNote

### Identification of Quercetin, Rutin, and “Compound 1” in a Brazilian Tree Bark

Over one quarter of natural medicines have been discovered in rainforests, and therefore analytical study of the indigenous flora and fauna is necessary. The Amazonian rainforest in Brazil is the most biodiverse region in the world.

A Brazilian tree bark extract (*Brownea Grandiceps*) is analyzed by LCMS and three beneficial compounds were identified in the Extracted Ion Chromatograms (EIC)s.



**Peaks:**

1. (6-Beta-O-2',3'-Dihydrocinamonyl-12-Hydroxy-(13) 15-en-16,12-Olide-18-Cassaneic Acid) m/z 498.2612 [M + H]<sup>+</sup>
2. Rutin m/z 611.1607 [M + H]<sup>+</sup>
3. Quercetin m/z 303.0499 [M + H]<sup>+</sup>

**Method Conditions**

**Column:** Cogent Diamond Hydride™, 4µm, 100Å

Catalog No.: [70000-15P-2](#)

**Dimensions:** 2.1 x 150mm

**Mobile Phase:**

A: DI Water / 0.1% Formic Acid

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

**Gradient:**

Time (minutes)	%B
0	80
1	10
5	10
6	80

**Post Time:** 3 minutes

**Injection vol.:** 1µL

**Flow rate:** 0.4mL / minute

**Detection:** ESI - POS - Agilent 6210 MSD TOF Mass Spectrometer

**Sample Preparation:** Two pieces of bark were boiled for 5 minutes in DI Water and then filtered with a 0.45µm Nylon Syringe Filter (MicroSolv Tech Corp.).

**t<sub>0</sub>:** 0.9 minutes

*Note: Preliminary research suggests that Quercetin may have Antiviral, Anti-Cancer, and Anti-Inflammatory properties. Likewise, Rutin has been reputed to have health benefits as well such as Anti-Oxidant properties,*

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*lowered risk of heart attack or stroke, and others.*



## **Attachment**

**No 320 Brazilian Tree Bark Analyzed with LCMS pdf** 0.3 Mb [Download File](#)