

Propolis Phenolic Acids Applied to Human Skin

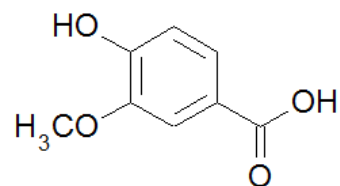
Application #AN4230

Conditions

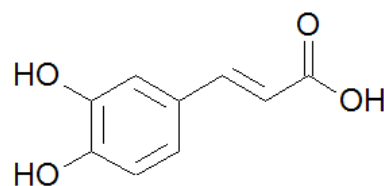
Column: ACE 5 C18
Dimensions: 150 x 0.5 mm
Part Number: ACE-121-15005
Mobile Phase: A: 0.5% acetic acid in H₂O
B: MeCN

Time (mins)	%B
0	1
25	21

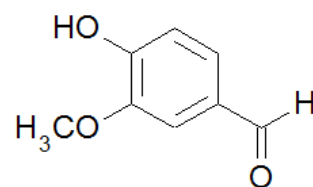
Flow Rate: 20 µL/min
Injection: 0.2 µL
Temperature: 25 °C
Detection: UV, 290 nm



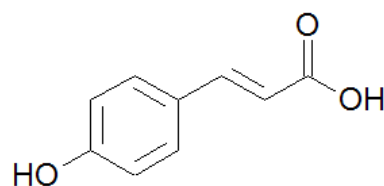
1. Vanillic acid



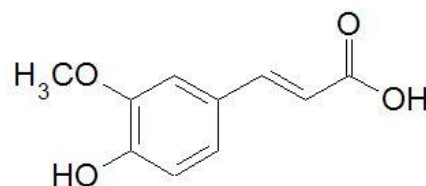
2. Caffeic acid



3. Vanillin

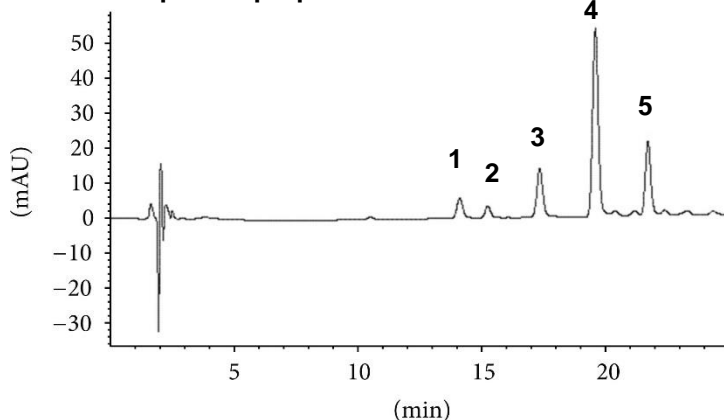


4. Coumaric acid

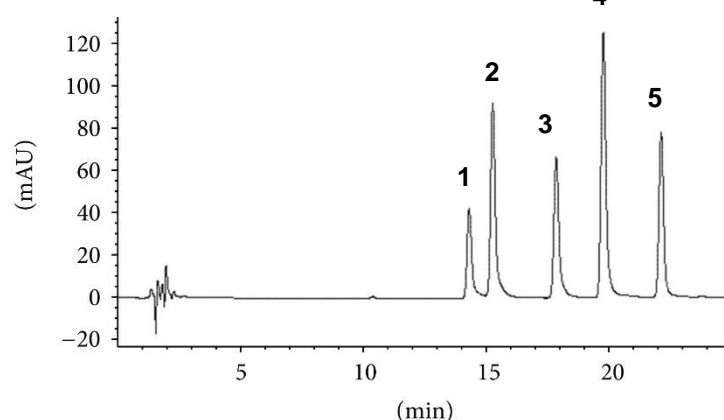


5. Ferulic acid

Aqueous propolis extract



Human skin dermis



Zilius M, Ramanauskiene K, Briedis V. Release of Propolis Phenolic Acids from Semisolid Formulations and their Penetration into the Human Skin in vitro. Evidence-based Complementary and Alternative Medicine (2013) <http://dx.doi.org/10.1155/2013/958717>

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