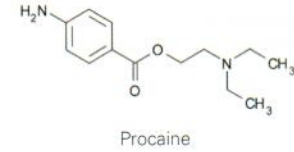
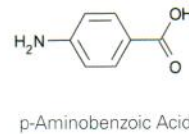
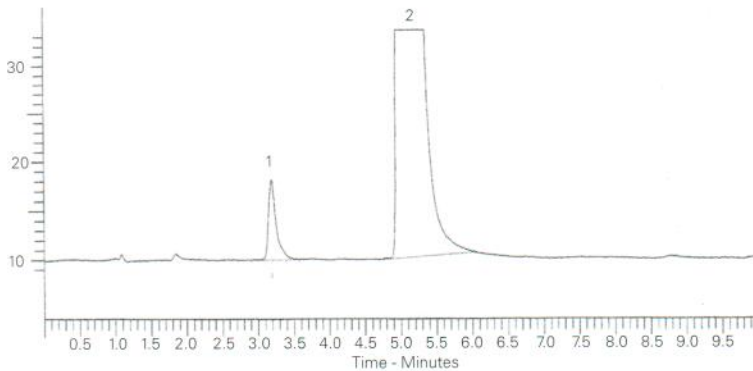
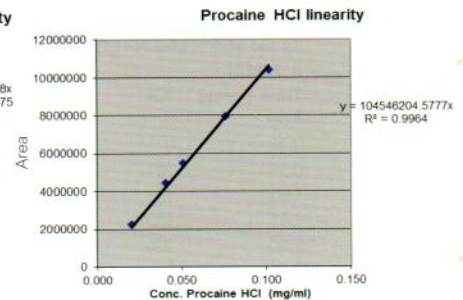
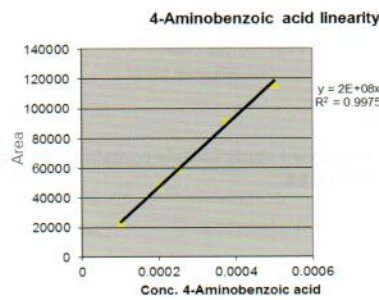


**Conditions**

**Column:** ACE 3 C18-PFP  
**Dimensions:** 100 x 4.6 mm  
**Part Number:** ACE-1110-1046  
**Mobile Phase:** 0.6% acetic acid in H<sub>2</sub>O/MeOH (81:19 v/v), adjusted to pH 4.7 with 20% NaOH  
**Flow Rate:** 1 mL/min  
**Detection:** UV, 279 nm  
 S/N limit: 10  
**Sample:** Procaine 0.0002 mg/mL, p-Aminobenzoic acid 0.00005 mg/mL

**Analytes**

1. p-Aminobenzoic acid (4-Aminobenzoic acid)
2. Procaine



Available from



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 Steinbruchstrasse 4, CH-4622 Egerkingen, Switzerland  
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[info@chemsupply.ch](mailto:info@chemsupply.ch)  
[www.chromatographyshop.com](http://www.chromatographyshop.com)

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**Propolis Phenolic Acids Applied to Human Skin**

**Conditions**

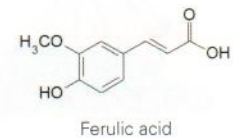
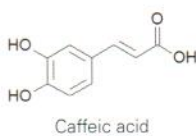
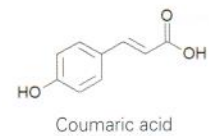
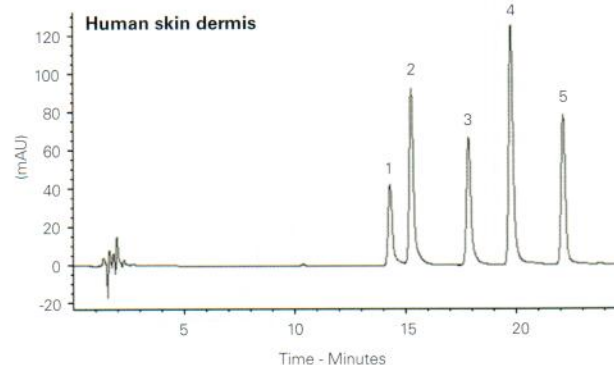
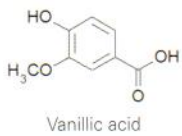
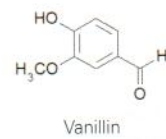
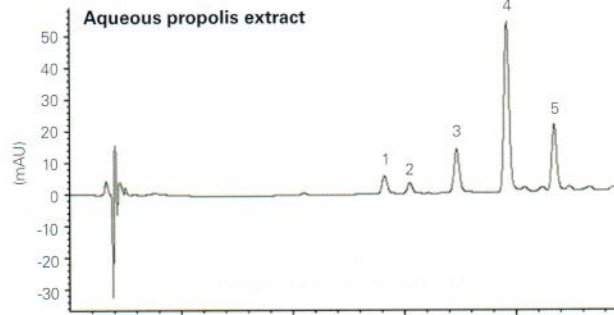
**Column:** ACE 5 C18  
**Dimensions:** 150 x 0.5 mm  
**Part Number:** ACE-121-15005  
**Mobile Phase:** A: 0.5% acetic acid in H<sub>2</sub>O  
 B: MeCN  
**Gradient:**

Time (mins)	%B
0	1
25	21

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

**Analytes**

1. Vanillic acid
2. Caffeic acid
3. Vanillin
4. Coumaric acid
5. Ferulic acid



Zilius M, Ramanauskienė 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>