

Certificate Of Analysis

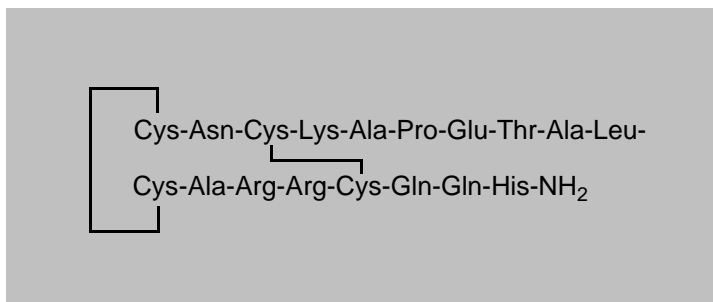
Quality Control Testing and Research Application

COA Preparation Date: 11/01/2013
COA Revision Date: 11/01/2016

Product: Apamin
Cat. No: BP0038
Batch No: 0038BP/04
Chemical Name:

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₇₉H₁₃₁N₃₁O₂₄S₄
Batch Molecular Weight: 2027.34
CAS No: [24345-16-2]
Physical Appearance: White lyophilised solid
Melting Point:
Solubility: Soluble to 1 mg/ml in water
Storage: Desiccate at -20° C
Batch Molecular Structure:



Product Description: **Highly selective and potent small-conductance Ca²⁺-activated K⁺-channel (SK_{Ca}) inhibitor. The only polypeptide neurotoxin that is known to pass the blood-brain barrier. Blocks medium after-hyperpolarisation *in vitro* and is convulsive *in vivo*.**

References: 1. Habermann (1984) *Pharmac Ther* 25:255; 2. Strong (1990) *Pharmac Ther* 46:137; 3. van der Staay et al. (1999) *Neurosci Biobehav Rev* 23:1087; 4. Stocker et al. (2004) *Toxicol* 43:933

- CAUTION - Not fully tested. For Research use only. Not for human use. -

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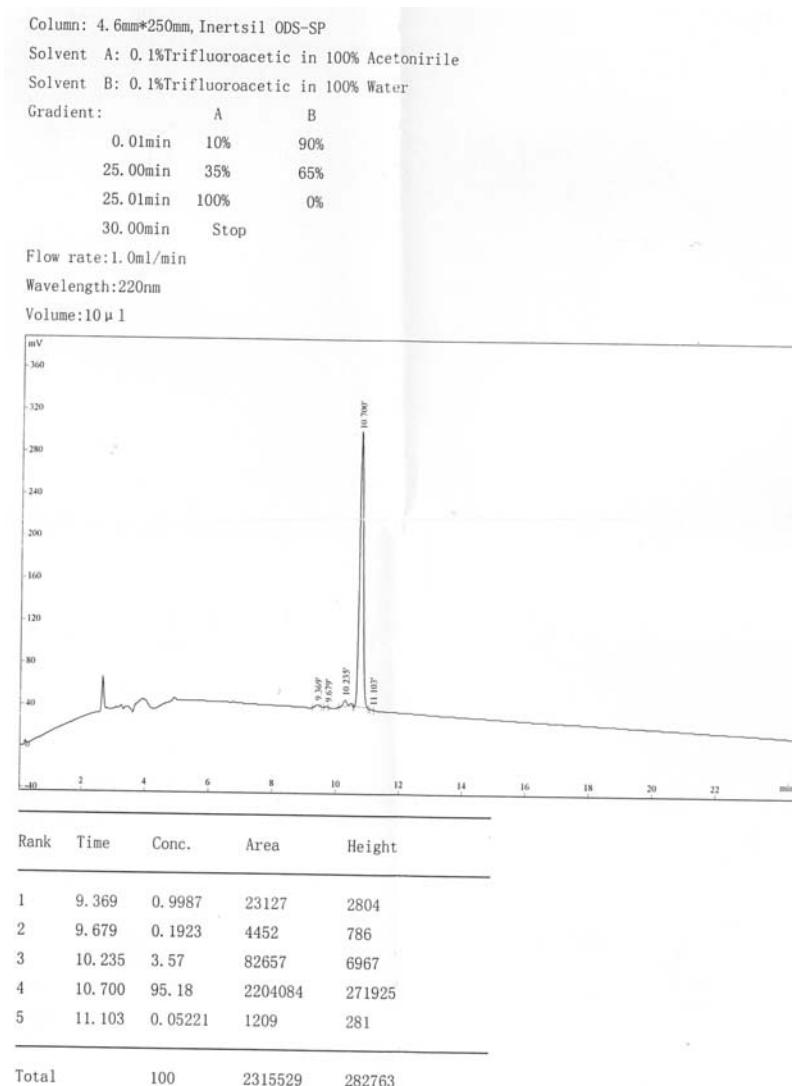
BP0038 Apamin

2. ANALYTICAL DATA

HPLC: corresponds to the reference

MS: corresponds to the reference

Tests: Counter Ion: Trifluoroacetate; HPLC Assay: 95.18% (complies).



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