

## Certificate Of Analysis

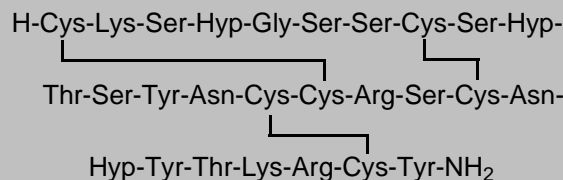
### Quality Control Testing and Research Application

COA Preparation Date: 08/08/2011  
COA Revision Date: 08/08/2014

**Product:**  $\omega$ -Conotoxin GVIA  
**Cat. No:** BP0079  
**Batch No:** 0079BP/02  
**Chemical Name:**

#### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:**  $C_{120}H_{182}N_{38}O_{43}S_6$   
**Batch Molecular Weight:** 3037.35  
**CAS No:** [106375-28-4]  
**Physical Appearance:** White lyophilised solid  
**Melting Point:**  
**Solubility:** Soluble to 1 mg/ml in water  
**Storage:** Desiccate at  $-20^{\circ}C$   
**Batch Molecular Structure:**



**Product Description:** Peptide neurotoxin that selectively and reversibly inhibits N-type calcium channels in neurons, but not in muscle. Does not bind to either the dihydropyridine or verapamil binding sites. Peptide first isolated from the marine snail *Conus geographus* L.

**References:** 1. Tsien et al. (1988) *TINS* 11:431; 2. Casali et al. (1997) *Br J Pharmacol* 120:88; 3. Wright and Angus (1997) *J Cardiovasc Pharmacol* 30:392; 4. Eterovic (1997) *Brain Res* 772:191; 5. Herrero (1999) *Br J Pharmacol* 127:1375

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

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**BP0079 ω-Conotoxin GVIA**

**2. ANALYTICAL DATA**

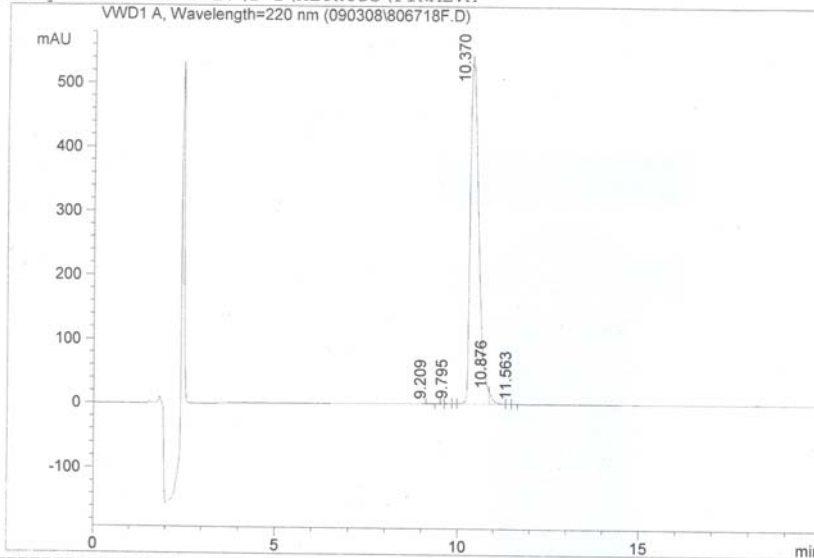
HPLC: corresponds to the reference

MS: corresponds to the reference

Tests: Counter Ion: Trifluoroacetate; HPLC Assay: 98% (complies).

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Injection Date : 9/3/2008                      Location   : Vial 14
Sample Name    : Final                          Inj. Vol.  : 100 µl
Acq Operator   : ZSD
Acq. Method   : FINAL.M
Analysis Method : E:\1-1\METHODS\FINAL.M
  
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Peak #	RT [min]	Type	Height	Width [min]	Area	Area %
1	9.209	VV	0.680	0.178	8.096	0.090
2	9.595	VV F	0.522	0.078	3.022	0.034
3	9.795	VV	1.262	0.142	12.260	0.137
4	9.886	VV B	1.187	0.110	9.244	0.103
5	10.370	VV	542.808	0.256	8796.313	98.046
6	10.876	VV B	17.963	0.093	127.919	1.426
7	11.360	VV	0.862	0.131	7.707	0.086
8	11.563	VV	0.750	0.132	7.098	0.079

\*\*\* End of Report \*\*\*

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