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Certificate Of Analysis

Quality Control Testing and Research Application

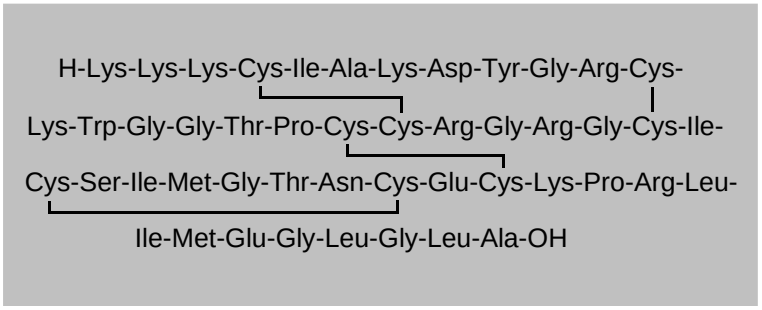
COA Preparation Date: 09/11/2011
COA Revision Date: 09/111/2014

Product:	**ω-Agatoxin IVa**
Cat. No:	BP0022
Batch No:	0022BP/01
Chemical Name:	ω-Agatoxin IVA

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	$C_{217}H_{360}N_{68}O_{60}S_{10}$
Batch Molecular Weight:	5202.25
CAS No:	
Physical Appearance:	White lyophilised solid
Melting Point:	
Solubility:	Soluble in water*
Storage:	Desiccate at -20° C

Batch Molecular Structure:



Product Description:

Potent, selective blocker of mammalian P-type voltage-dependent calcium channels (K_D = 2 nM). The Toxin is found in the venom of the funnel web spider (*Agelenopsis aptera*). Displays low-affinity blockade of neuronal N-type Ca^{2+} channels.

*****This vial contains exactly 0.11 mg (21 nmol). Solutions: Do not remove cap. Inject 210 µl of distilled water into the vial using a calibrated syringe. This procedure furnishes a 0.1 mM solution of the titled compound.

References:

1. Turner et al. (1992) Science 258:310; 2. Mintz et al. (1992) Neuron 9:85; 3. Mintz et al. (1992) Nature 355:827; 4. Sidach and Mintz (2000) J Neurosci 20:7174

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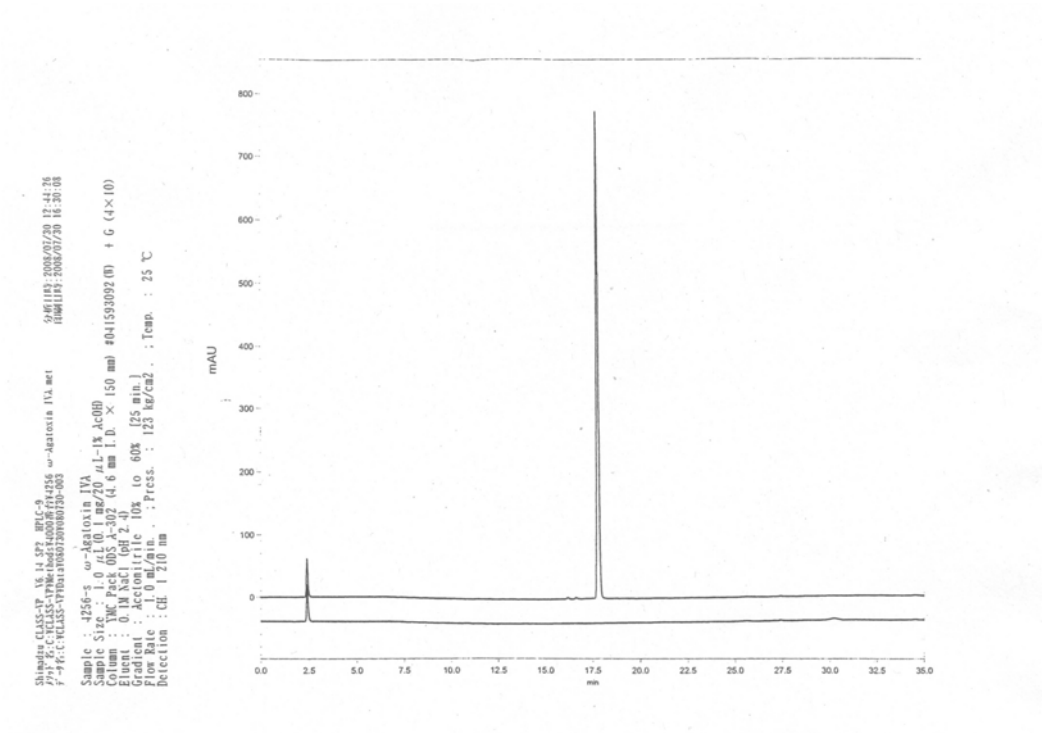
BP0022 ω-Agatoxin IVa

2. ANALYTICAL DATA

HPLC:	corresponds to the reference
MS:	corresponds to the reference
Tests:	Specific optical rotation: -44.7° ($[\alpha]_D$, c = 0.16, solvent = 1% AcOH) (complies); HPLC Assay: > 98% (complies).



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