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Certificate of Analysis

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Print Date: Jan 15th 2016

Product Name: L-BMAA hydrochloride

Catalog No.: 2538 Batch No.: 1

CAS Number:16012-55-8IUPAC Name:3-(Methylamino)-L-alanine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage: Batch Molecular Structure: $C_4H_{10}N_2O_2$.HCl 154.6 White solid water to 60 mM Store at -20°C

 NH_2 ,NHM e HO₂C .HCI

2. ANALYTICAL DATA

Melting Point:	At 187°C(dec)				
¹ H NMR:	Consistent with structure				
¹³ C NMR:	Consistent with structure				
Mass Spectrum:	Consistent with structure				
Optical Rotation:	$[\alpha]_D$ = +35.5 (Concentration = 1.15, Solvent = 5N HCl)				
Microanalysis:	Carbon Hydrogen Nitrogen				
	Theoretical 31.08 7.17 18.12				
	Found 31.1 7.02 18.16				

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Batch No.: 1

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Product Name: L-BMAA hydrochloride

CAS Number: 16012-55-8 **IUPAC Name:** 3-(Methylamino)-L-alanine hydrochloride

Description:

Neurotoxic glutamate agonist originally isolated from Cycas circinalis. Implicated in the pathogenesis of amyotrophic lateral sclerosis-Parkinsonism-dementia complex of Guam (Guam ALS-PD).

Physical and Chemical Properties:

Batch Molecular Formula: C₄H₁₀N₂O₂.HCl Batch Molecular Weight: 154.6 Physical Appearance: White solid

Batch Molecular Structure:

 NH_2 NHMe HO₂C .HCI

Storage: Store at -20°C

Solubility & Usage Info: water to 60 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

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Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Vega et al (1968) The preparation of L- and D- α -amino- β -methylaminopropionic acids and the identification of the compound isolated from Cycas circinalis as the L-isomer. Phytochemistry 7 1885.

Weiss et al (1989) Neurotoxicity of β -N-methylamino-L-alanine (BMAA) and β -N-oxalylamino-L-alanine (BOAA) on cultured cortical neurons, Brain Res. 497 64, PMID: 2551452.

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