Print Date: Jul 20th 2018

Certificate of Analysis

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Product Name: L-(-)-*threo*-3-Hydroxyaspartic acid **Catalog No.:** 0183 **Batch No.:** 14

CAS Number: 7298-99-9

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_4H_7NO_5$

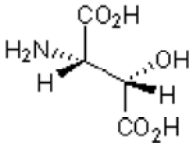
Batch Molecular Weight: 149.1

Physical Appearance: White solid

Solubility: 1eq. NaOH to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.39 (PAW:BuOH 3:2)

HPLC: Shows 98.8% purity

Chiral HPLC: Shows 99.6% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: $[\alpha]_D$ = -10.1 (Concentration = 0.32, Solvent = Water)

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	32.22	4.73	9.39
Found	32.29	4.69	9.2

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Product Information

Product Name: **L-(-)-*threo*-3-Hydroxyaspartic acid** **Catalog No.: 0183** **Batch No.: 14**

CAS Number: 7298-99-9

Description:

Potent, competitive, transportable EAAT1-4 inhibitor/non-transportable EAAT5 inhibitor. Also available as part of the Excitatory Amino Acid Transporter Inhibitor Tocriset™.

Physical and Chemical Properties:

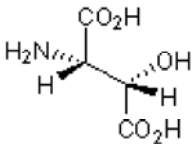
Batch Molecular Formula: $C_4H_7NO_5$

Batch Molecular Weight: 149.1

Physical Appearance: White solid

Minimum Purity: >97%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

1eq. NaOH to 100 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).

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:

Nakamura *et al* (1993) (2*S*,3*S*,4*R*)-2-(carboxycyclopropyl)glycine, a potent and competitive inhibitor of both glial and neuronal uptake of glutamate. Neuropharmacology ***32*** 833. PMID: 7901789.

McBean and Roberts (1985) Neurotoxicity of L-glutamate and DL-*threo*-3-hydroxyaspartate in the rat striatum. J.Neurochem. ***44*** 247. PMID: 2856883.

Johnston *et al* (1980) Potentiation of L-glutamate and L-aspartate excitation of cat spinal neurones by the stereoisomers of *threo*-3-hydroxyaspartate. J.Neurochem. ***34*** 241. PMID: 7452241.