TOCRIS
a bio-techne brand

Print Date: Sep 17th 2020

Certificate of Analysis

www.tocris.com

Product Name: **NMDA** **Catalog No.: 0114** **Batch No.: 36**

CAS Number: 6384-92-5

IUPAC Name: *N*-Methyl-D-aspartic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_5H_9NO_4.¼H_2O$

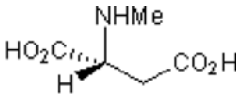
Batch Molecular Weight: 151.63

Physical Appearance: White solid

Solubility: water to 100 mM
phosphate buffered saline to 100 mM
1eq. NaOH to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

Chiral HPLC: Shows 100% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: $[\alpha]_D$ = -15.4 (Concentration = 1, Solvent = Water)

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	39.61	6.31	9.24
Found	39.85	6.43	9.24

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel:+1 612 379 2956

Product Information

Product Name: **NMDA** **Catalog No.: 0114** **Batch No.: 36**

CAS Number: 6384-92-5

IUPAC Name: *N*-Methyl-D-aspartic acid

Description:

Prototypic NMDA receptor agonist. Caged version also available (Cat. No 2224).

Physical and Chemical Properties:

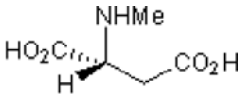
Batch Molecular Formula: $C_5H_9NO_4.¼H_2O$

Batch Molecular Weight: 151.63

Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 100 mM
phosphate buffered saline to 100 mM
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:

Watkins and Evans (1981) Excitatory amino acid transmitters. Annu.Rev.Pharmacol.Toxicol. ***21*** 165. PMID: 6112965.

Watkins (1978) Excitatory amino acids. Kainic acid as a Tool in Neurobiology. Edited by E 37.

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel:+1 612 379 2956