

# Certificate of Analysis

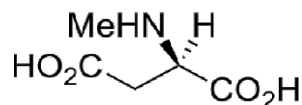


## Product Identification

Catalog number HB0454  
Compound name NMDA  
Chemical name N-methyl-D-aspartic acid

Batch number HB0507-1-1  
Batch molecular formula  $C_5H_9NO_4$   
Batch molecular weight 151.63

## Chemical Structure



## Method

## QC requirement

## QC Result

<b>HPLC</b>	Reverse Phase HPLC shows >98% purity	Meets specification: 98.6%
<b>NMR</b>	<sup>1</sup> H NMR in D <sub>2</sub> O at 400 MHz consistent with structure	Meets specification
<b>Mass spectrum</b>	Electrospray positive analysis consistent with structure	Meets specification
<b>Microanalysis</b>	Elemental analysis is within 0.4% for the batch molecular formula	Meets specification
<b>TLC</b>	TLC analysis in 3:2 PAW/BuOH shows one spot under ninhydrin visualisation	Meets specification: R <sub>f</sub> =0.35
<b>Physical appearance</b>	White to off-white solid	Meets specification: White solid
<b>Solubility</b>	Soluble in water (100 mM)	Meets specification

## Biological validation

Produced by Richard Patterson

Signature

Passed by Huw Davies

Signature

Date

15-10-16

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.