

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-01-13 09:49:45

Date of Next Testing: 2029-01-12 09:49:45

Product Name: **(R)-1-BOC-3-(Hydroxymethyl)piperazine**

CAS Number: 278788-66-2

Specifications & Purity: $\geq 98\%$

Lot #: D2102105

SKU #: **I169227**

Version: **0**

Analysis #: **461304**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity(HPLC)	98-100 (%)	99.12300 %
Enantiometric Excess	98-100 (%)	98.82 %
Appearance (I169227)	White to light yellow powder,crystals or solid	White to light yellow powder,crystals or solid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure

A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager