

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-03-06 14:48:40

Date of Next Testing: 2028-03-05 14:48:40

Product Name: **(S)-1-Boc-3-hydroxymethylpiperazine**

CAS Number: 314741-40-7

Specifications & Purity: $\geq 97\%$

Lot #: F2205557

SKU #: **T176099**

Version: **0**

Analysis #: **480153**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity(HPLC)	97-100 (%)	99.66000 %
Specific Rotation $[\alpha]_{20/D}(c=2 \text{ in EtOH})$	17-20 (°)	19.81 °
Proton NMR spectrum	Conforms to Structure	Conforms to Structure

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

John Su
QA & QC Manager