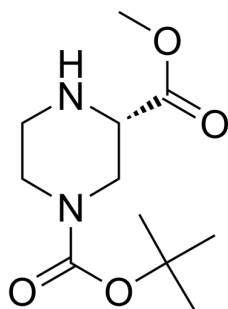


## Certificate of Analysis

### Compound Information

Product Name:	(S)-1-N-Boc-piperazine-3-carboxylic acid methyl ester
Cat. No.:	1051281
CAS No.:	314741-39-4
Molecular Formula:	C <sub>11</sub> H <sub>20</sub> N <sub>2</sub> O <sub>4</sub>
Molecular Weight:	244.29
Chemical Structure:	



### Batch Information

Batch No.:	Lf0620141120
Storage:	RT, protect from light
Test Date:	2022-06-20
Retest Date:	2025-06-19
Origin:	Shanghai, China

### QC Summary

Appearance:	White to light yellow (Solid)
<sup>1</sup> H NMR Spectrum:	Consistent with structure
Purity (NMR):	≥98.0%
OR[α] <sub>D</sub> (C=1 g/100ml CHCl <sub>3</sub> ):	64.4°
Conclusion:	The product has been tested and complies with the given specifications.

Caution: Research use only and are not intended for human use.

Tel: 400-821-0725

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