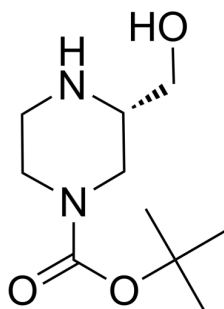


## Certificate of Analysis

### Compound Information

|                     |   |
|---------------------|---|
| Product Name:       | (S)-1-Boc-3-hydroxymethyl-piperazine                          |
| Cat. No.:           | 1052383   |
| CAS No.:            | 314741-40-7   |
| Molecular Formula:  | C <sub>10</sub> H <sub>20</sub> N <sub>2</sub> O <sub>3</sub> |
| Molecular Weight:   | 216.28  |
| Chemical Structure: |   |



### Batch Information

|              |                        |
|--------------|------------------------|
| Batch No.:   | Lc0812088              |
| Storage:     | RT, protect from light |
| Test Date:   | 2019-08-12             |
| Retest Date: | 2022-08-11             |
| Origin:      | Shanghai, China        |

### QC Summary

|                              |   |
|------------------------------|---|
| Appearance:                  | White to off-white (Solid)  |
| <sup>1</sup> H NMR Spectrum: | Consistent with structure   |
| Optical Rotation:            | Consistent with structure   |
| Purity (NMR):                | ≥98.0%  |
| Conclusion:                  | The product has been tested and complies with the given specifications. |

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

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