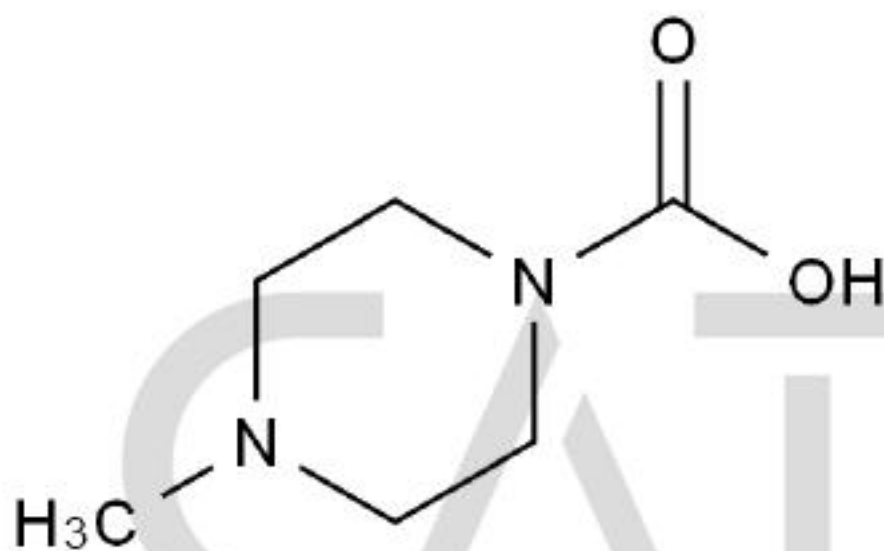


# Certificate of Analysis

## Reference Material & Standard

|                    |                        |                   |                                           |
|--------------------|------------------------|-------------------|-------------------------------------------|
| Product Name:      | Piperazine Impurity 14 | Catalogue Number: | C4X-242714                                |
| Synonyms:          | N/A                    | Lot Number:       | 0911-SA-7733                              |
| CAS Number:        | 58226-19-0             | Expiry Date:      | Sep 10, 29                                |
| Molecular Formula: | $C_6H_{12}N_2O_2$      | Storage:          | 2°C ~ 8°C Protected from light and Sealed |
| Molecular Weight:  | 144.17                 |                   |                                           |

Chemical Structure:



| Test Items      | Method            | Results   |
|-----------------|-------------------|-----------|
| Appearance      | Visual inspection | Solid     |
| Identification: | LC&HNMR           | Confirmed |
| Purity:         | HPLC              | 98.036%   |

Signature:

Prepared by:

*Lisa*

Reviewed by:

*Yuki*

Approved by General Manager:

*David*

Date: Sep 11, 25

Date: Sep 11, 25

Date: Sep 11, 25



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## Directions:

- 1. Intended use: This product is suitable for identification and quantification of the analyte(s), instrument calibration, method development and quality control in analytical and R&D applications. It is not intended for administration to humans or animals, and shall not be used to diagnose, treat or cure any diseases.*
- 2. Minimum sample size: 1mg is recommended as the minimum sample size.*
- 3. Metrological traceability: This product meets the requirements of ISO 17034 and is traceable to NMI through an unbroken chain of comparisons.*
- 4. Instructions for handling and correct use: Handling in a well-ventilated place.*

## Document Version:

| Revision No. | Date       | Reason for Revision |
|--------------|------------|---------------------|
| 01           | Sep 11, 25 | First release.      |

