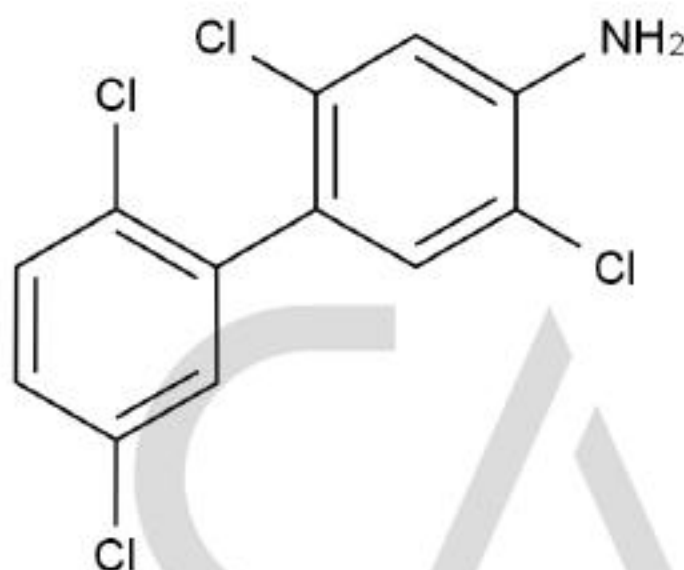


# Certificate of Analysis

## Reference Material & Standard

|                           |                                                  |                          |                                           |
|---------------------------|--------------------------------------------------|--------------------------|-------------------------------------------|
| <b>Product Name:</b>      | 4-Amino-2,2',5,5'-Tetrachlorobiphenyl            | <b>Catalogue Number:</b> | CCPD101023                                |
| <b>Synonyms:</b>          | N/A                                              | <b>Lot Number:</b>       | 1106-SA-7551                              |
| <b>CAS Number:</b>        | 108736-09-0                                      | <b>Expiry Date:</b>      | Nov 05, 29                                |
| <b>Molecular Formula:</b> | C <sub>12</sub> H <sub>7</sub> Cl <sub>4</sub> N | <b>Storage:</b>          | 2°C ~ 8°C Protected from light and Sealed |
| <b>Molecular Weight:</b>  | 307.00                                           |                          |                                           |

Chemical Structure:



| Test Items      | Method            | Results   |
|-----------------|-------------------|-----------|
| Appearance      | Visual inspection | Solid     |
| Identification: | LC&HNMR           | Confirmed |
| Purity:         | HPLC              | 97.522%   |
| Uncertainty     |                   | ±2.0%     |

## Comment:

The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by:

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Reviewed by:

Yuki

Approved by General Manager:

David

Date: Nov 06, 25

Date: Nov 06, 25

Date: Nov 06, 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           | Nov 06, 25 | First release.      |

