

# Certificate of Analysis

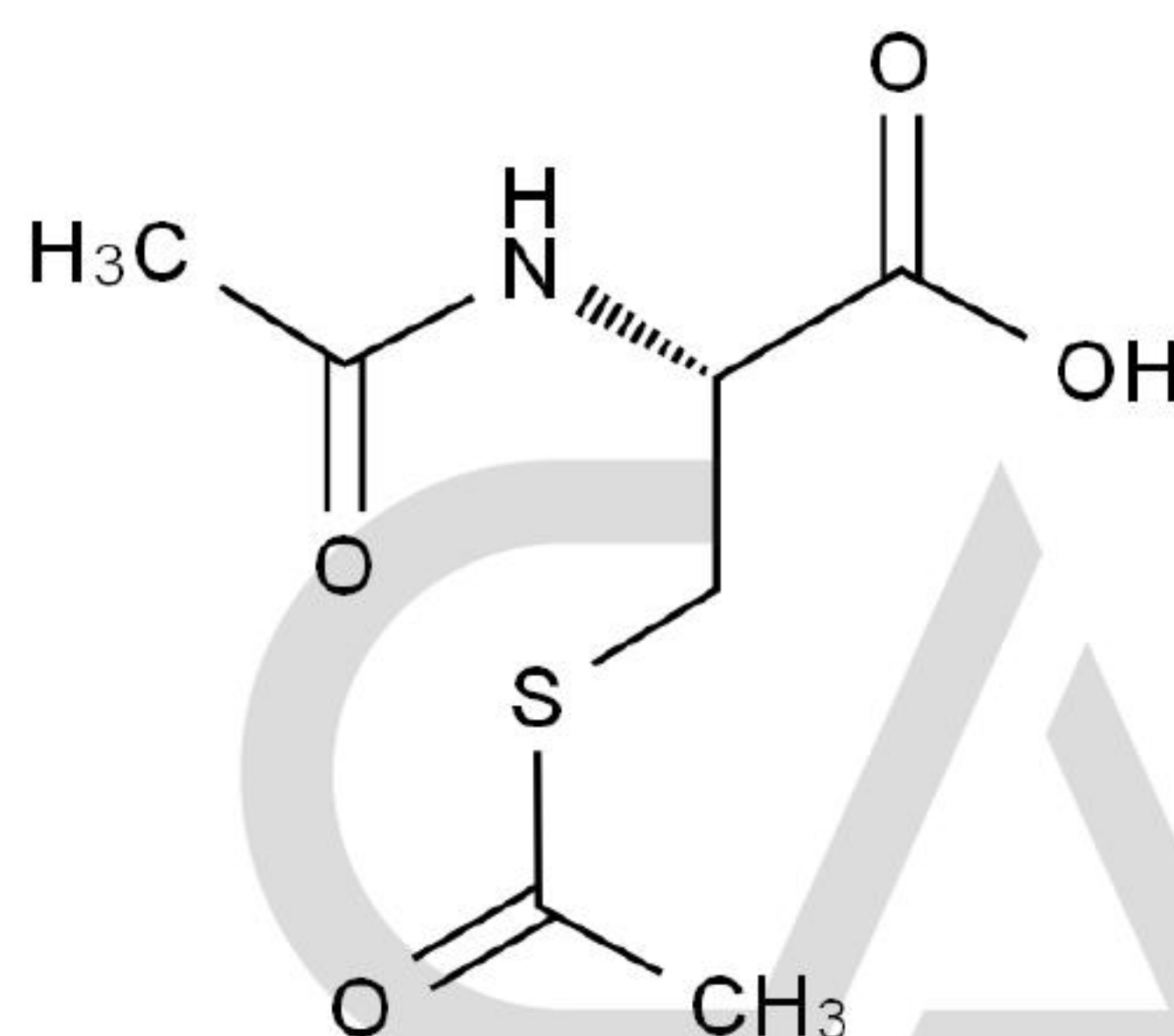
## Reference Material & Standard

|                           |                                                  |                            |                                           |
|---------------------------|--------------------------------------------------|----------------------------|-------------------------------------------|
| <b>Product Name:</b>      | Acetylcysteine EP Impurity D                     | <b>Catalogue Number:</b>   | C4X-153236                                |
| <b>Synonyms:</b>          | N,S-Diacetyl-L-cysteine                          | <b>Lot Number:</b>         | 0211-RH-0010                              |
| <b>CAS Number:</b>        | 18725-37-6                                       | <b>Expiry Date:</b>        | Mar 01, 2030                              |
| <b>Molecular Formula:</b> | C <sub>7</sub> H <sub>11</sub> NO <sub>4</sub> S | <b>Storage:</b>            | 2°C ~ 8°C Protected from light and Sealed |
| <b>Molecular Weight:</b>  | 205.23                                           | <b>Shipping Condition:</b> | Shipping at Room Temperature              |

**Warning:**



**Chemical Structure:**



| Test Items     | Method            | Results     |
|----------------|-------------------|-------------|
| Appearance     | Visual inspection | White Solid |
| Identification | LCMS&HNMR         | Confirmed   |
| Purity         | ELSD              | 99.993%     |
| Water Content  | Karl Fischer      | 1.3796%     |
| Assay          |                   | 98.6%       |

## Comment:

The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

Assay (%) = (100% - Water Content) \* Purity ELSD (%) / 100%

Water Content is considered as absolute effect, ELSD purity is considered as relative effect.

**Signature:**

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Reviewed by:

*Koi*

Approved by General Manager:

*David*

Date: Mar 02, 2026

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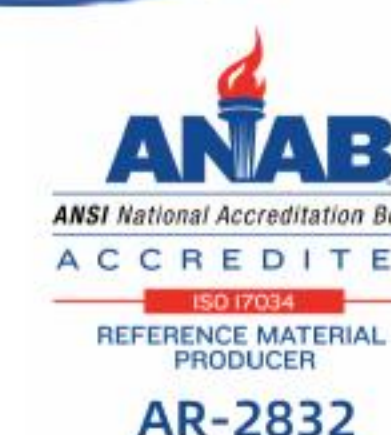
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