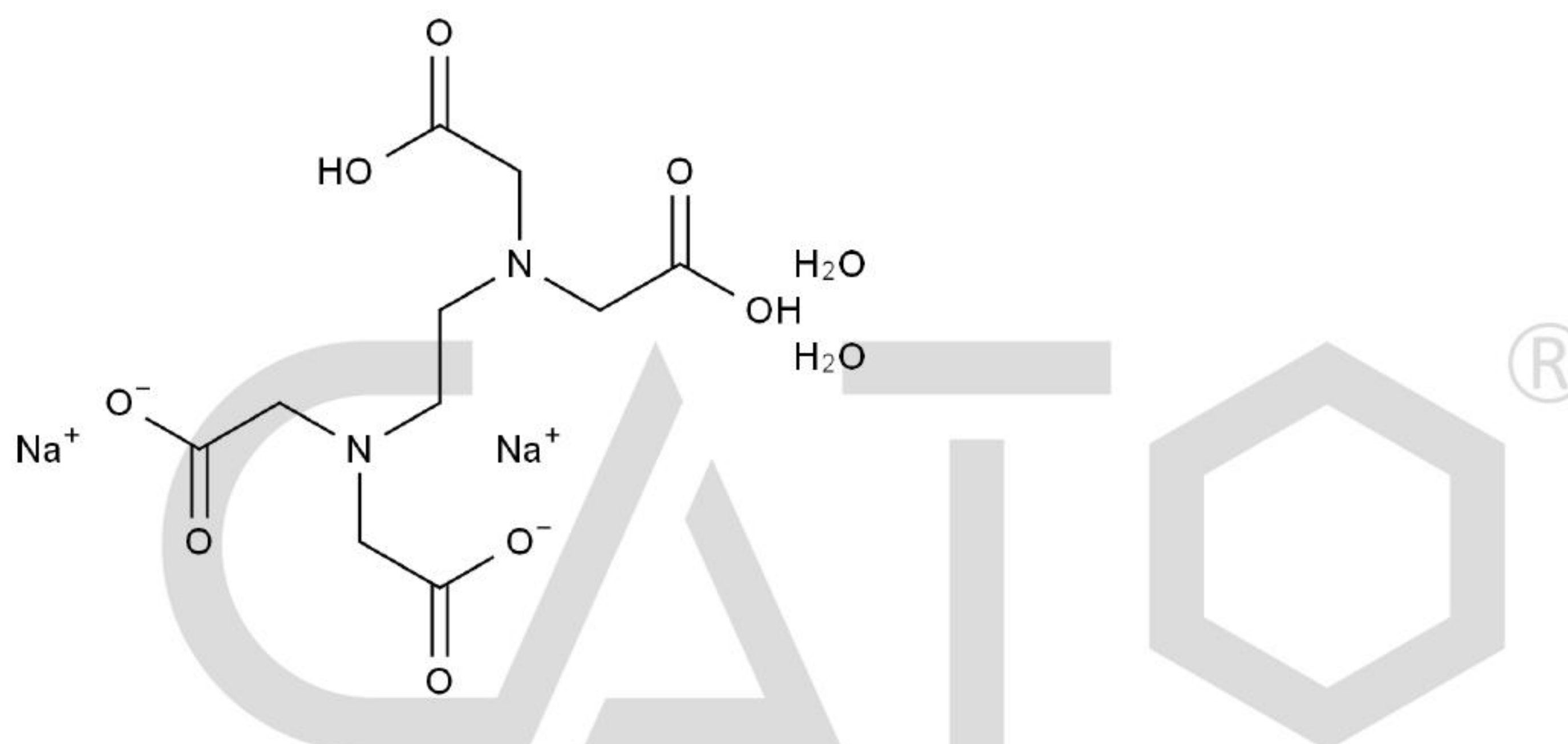


# Certificate of Analysis

## Reference Material & Standard

|                           |                                                           |                          |                                                                                     |
|---------------------------|-----------------------------------------------------------|--------------------------|-------------------------------------------------------------------------------------|
| <b>Product Name:</b>      | Disodium Dihydrogen Ethylenediaminetetraacetate Dihydrate | <b>Catalogue Number:</b> | CCHM700983                                                                          |
| <b>Synonyms:</b>          | N/A                                                       | <b>Lot Number:</b>       | 1027-RE-0013                                                                        |
| <b>CAS Number:</b>        | 6381-92-6                                                 | <b>Expiry Date:</b>      | Dec 04, 2027                                                                        |
| <b>Molecular Formula:</b> | C10H14N2O8 2*Na 2*H2O                                     | <b>Storage:</b>          | 2°C ~ 8°C Protected from light and Sealed                                           |
| <b>Molecular Weight:</b>  | 290.23 2*22.99 2*18.02                                    | <b>Warning:</b>          |  |

### Chemical Structure:



| Test Items                 | Method               | Results     |
|----------------------------|----------------------|-------------|
| Appearance                 | Visual inspection    | White Solid |
| Identification             | LCMS&IR&UV&CNMR&HNMR | Confirmed   |
| Purity                     | HPLC                 | 99.467%     |
| Loss On Drying             | TGA                  | 9.6851%     |
| Loss On Drying(Free Water) |                      | 0.0034%     |
| Assay                      |                      | 99.5%       |
| Uncertainty                |                      | ±0.2%       |

## Comment:

- The content of crystal water is 9.6817%
- The calculation of the 100% method follows the formula (calculated on the non-dried basis):  

$$\text{Assay (\%)} = (100\% - \text{Loss On Drying(Free Water)}) * \text{Purity HPLC (\%)} / 100\%$$
 Loss On Drying(Free Water) is considered as absolute effect, HPLC purity is considered as relative effect.
- 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:

*Nice*

Reviewed by:

*Lisa*

Approved by General Manager:

*David*

Date: Jun 20, 2025

Date: Jun 20, 2025

Date: Jun 20, 2025

