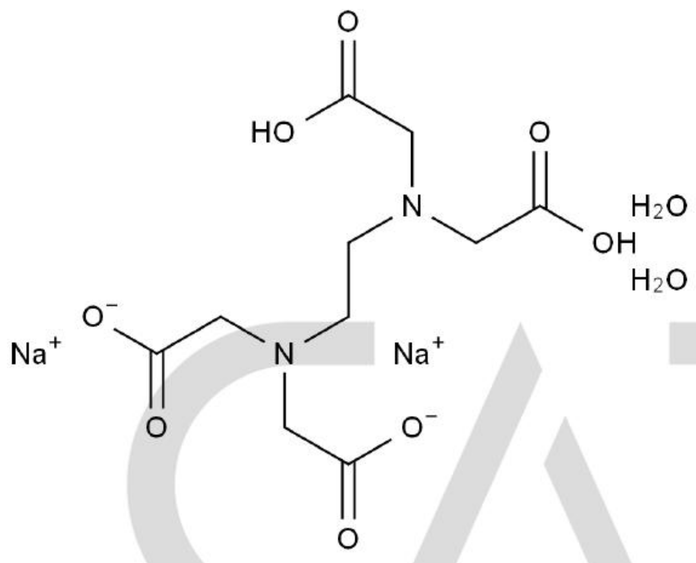
Certificate of Analysis

Reference Material & Standard

Product Name:	Disodium Dihydrogen Ethylenediaminetetraacetate Dihydrate	**Catalogue Number:**	CCHM700983
Synonyms:	N/A	**Lot Number:**	1020-RH-0084
CAS Number:	6381-92-6	**Expiry Date:**	Oct 19, 2030
Molecular Formula:	$C_{10}H_{14}N_2O_8$ 2*Na 2*H_2O	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	290.23 2*22.99 2*18.02	**Shipping Condition:**	Shipping at Room Temperature
		Warning:	

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	qNMR	98.6%
Assay (Assigned Value)	Mass Balance	99.5%
Uncertainty		±0.2%

Comment:

1. The content of crystal water is 9.6817%.

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

*Assay (%) = (100%-Loss on Drying(Free Water)) * Purity HPLC (%) /100%*

Loss on Drying(Free Water) is considered as absolute effect, HPLC purity is considered as relative effect.

3. 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: Lisa Date: Oct 20, 2026

Reviewed by: Hinlam Date: Oct 20, 2026

Approved by General Manager: David Date: Oct 20, 2026

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ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-2832

ISO 9001:2000 SGS

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