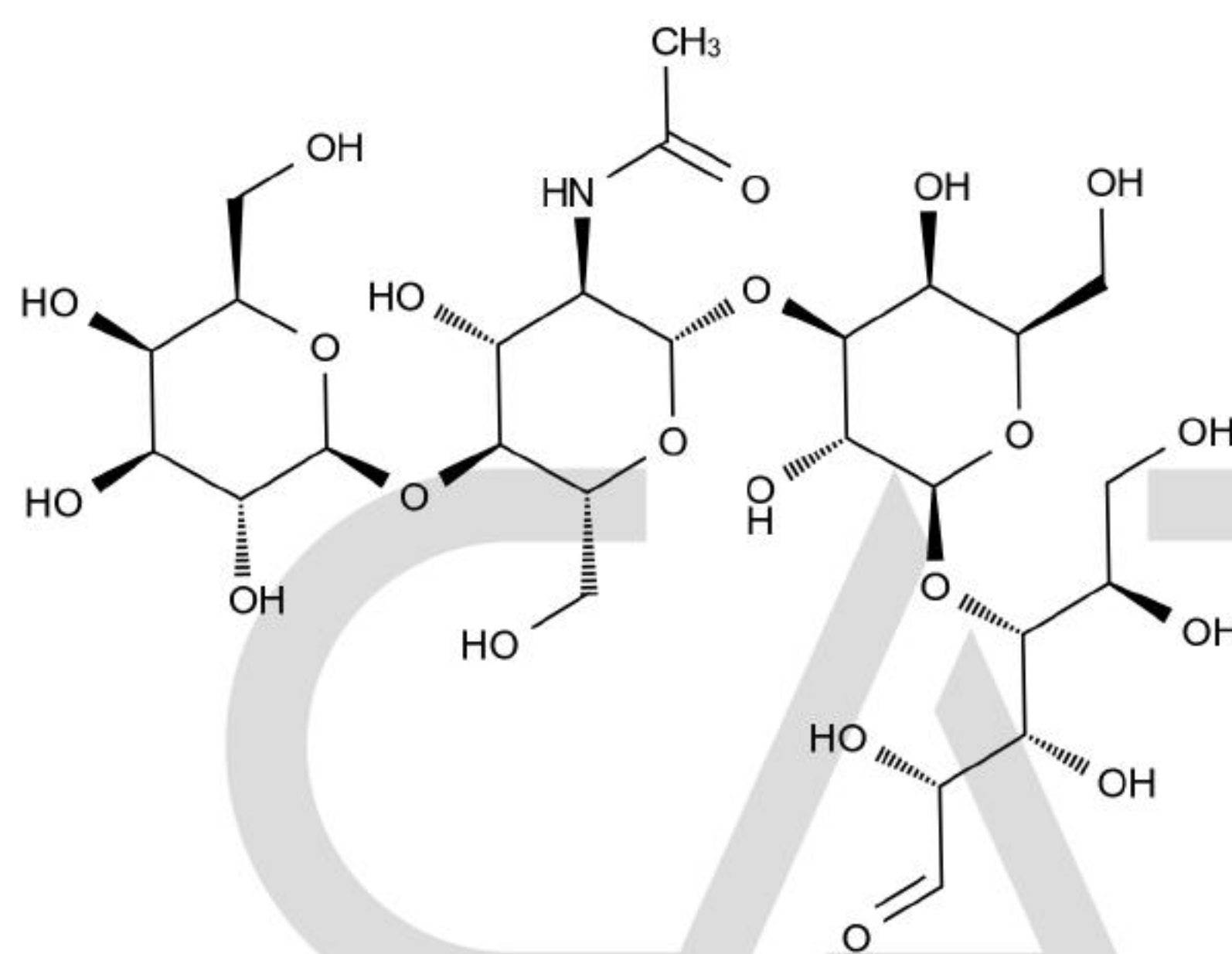


Certificate of Analysis

Reference Material & Standard

Product Name:	Lacto-N-neotetraose	Catalogue Number:	CCFD201743
Synonyms:	N/A	Lot Number:	0516-RG-0004
CAS Number:	13007-32-4	Expiry Date:	May 26, 2029
Molecular Formula:	C ₂₆ H ₄₅ NO ₂₁	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	707.63	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	ELSD	99.286%
Residue on Ignition	TGA	0.3131%
Loss On Drying	TGA	6.2368%
Assay		92.8%
Uncertainty		±0.7%

Comment:

1. The calculation of the 100% method follows the formula (calculated on the non-dried basis):

$\text{Assay (\%)} = (100\% - \text{Residue on Ignition} - \text{Loss On Drying}) * \text{Purity ELSD (\%)} / 100\%$

Residue on Ignition and Loss On Drying are considered as absolute effect, ELSD purity is considered as relative effect.

2. 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: May 27, 2025

Date: May 27, 2025

Date: May 27, 2025

