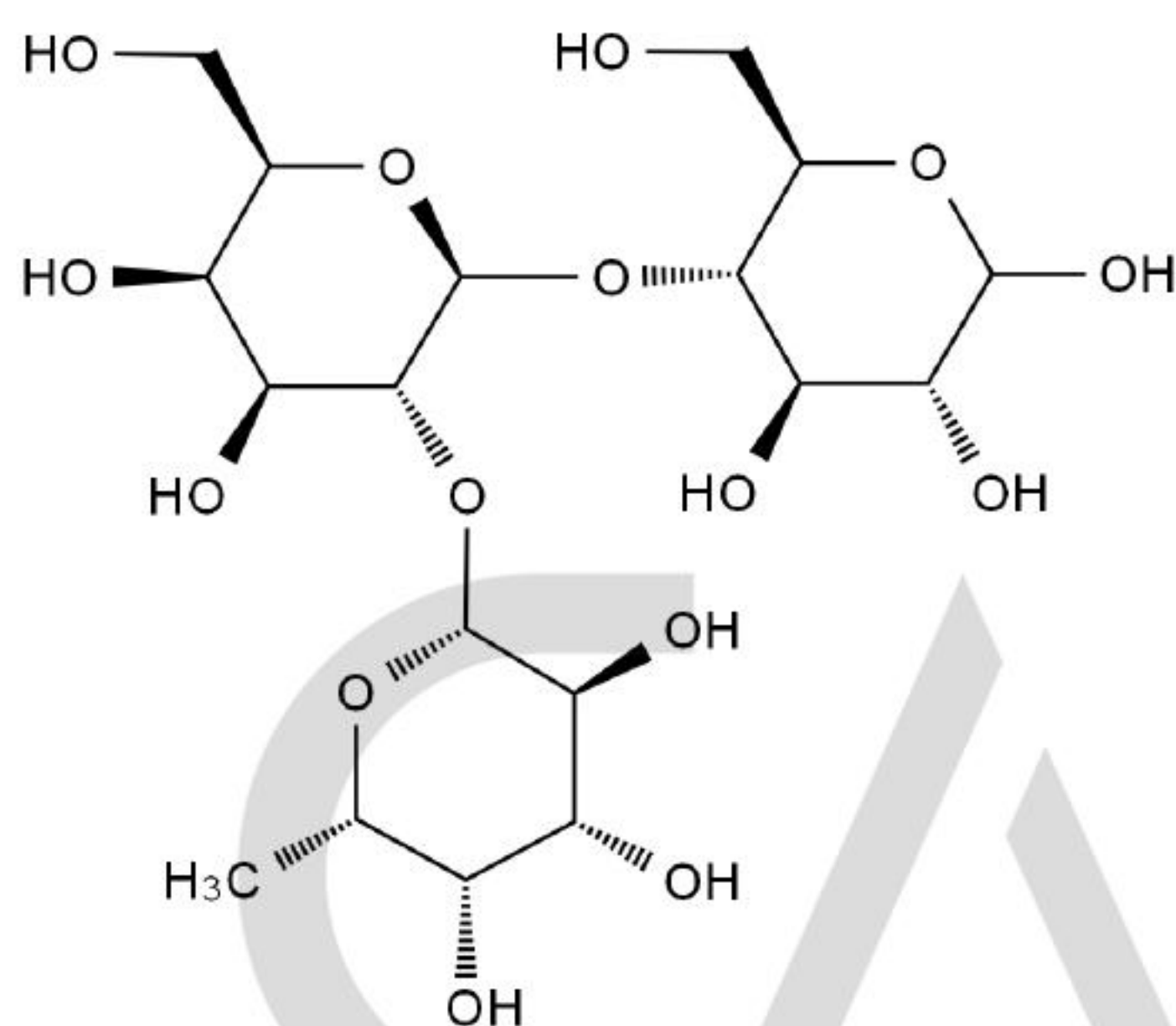


# Certificate of Analysis

## Reference Material & Standard

|                    |                                                 |                   |                                                                                     |
|--------------------|-------------------------------------------------|-------------------|-------------------------------------------------------------------------------------|
| Product Name:      | 2'-Fucosyllactose                               | Catalogue Number: | CCFD201616                                                                          |
| Synonyms:          | N/A                                             | Lot Number:       | 0516-RG-0005                                                                        |
| CAS Number:        | 41263-94-9                                      | Expiry Date:      | May 26, 2029                                                                        |
| Molecular Formula: | C <sub>18</sub> H <sub>32</sub> O <sub>15</sub> | Storage:          | 2°C ~ 8°C Protected from light and Sealed                                           |
| Molecular Weight:  | 488.44                                          | Warning:          |  |

Chemical Structure:



| Test Items          | Method            | Results     |
|---------------------|-------------------|-------------|
| Appearance          | Visual inspection | White Solid |
| Identification      | LCMS&HNMR         | Confirmed   |
| Purity              | ELSD              | 100.000%    |
| Residue on Ignition | TGA               | 0.3157%     |
| Loss On Drying      | TGA               | 0.0407%     |
| Assay               |                   | 99.6%       |
| Uncertainty         |                   | ±0.1%       |

## 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

