

## Certificate of Analysis

Date of Testing: 2025-01-07 11:38:38

Date of Next Testing: 2029-01-06 11:38:38

Product Name: **D-Lactitol monohydrate**

CAS Number: 81025-04-9

Specifications & Purity:  $\geq 98\%$

Lot #: E1323051

SKU #: **L121088**

Version: **0**

Analysis #: **458049**

Storage Temperature: Argon charged

| Parameter                                                       | Limit Values          | Result                |
|-----------------------------------------------------------------|-----------------------|-----------------------|
| Ignition Residue                                                | 0-0.1 (%)             | 0.03 %                |
| Specific Rotation $[\alpha]_{20/D(c=1 \text{ in H}_2\text{O})}$ | 13.1-13.7 (°)         | 13.12 °               |
| Sulfate(SO <sub>4</sub> <sup>2-</sup> )                         | 0-30 (ppm)            | 15.00 ppm             |
| Water by Karl Fischer                                           | 0-5.5 (%)             | 4.20 %                |
| Purity(HPLC)                                                    | 98-100 (%)            | 99.04800 %            |
| Heavy metals                                                    | 0-5 (ppm)             | 2.60 ppm              |
| Appearance (L121088)                                            | White crystal powder  | White crystal powder  |
| Infrared spectrum                                               | Conforms to Structure | Conforms to Structure |
| NMR spectrum                                                    | Conforms to Structure | Conforms to Structure |
| Solubility, Colorless and clear(5% in H <sub>2</sub> O)         | pass                  | Pass                  |



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