

## CERTIFICATE OF ANALYSIS

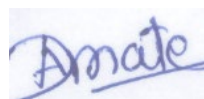
**PRODUCT NAME : LACTOSE (MONOHYDRATE) AR**

<b>CAS No</b>	: 10039-26-6	<b>Product code</b>	: 23700
<b>Mol. Formula</b>	: C <sub>12</sub> H <sub>22</sub> O <sub>11</sub> .H <sub>2</sub> O	<b>Batch No.</b>	: MCRT-28823-01
<b>Mol. WT</b>	: 360.31	<b>Mfd.</b>	: Sept. 2024
<b>Date of analysis</b>	: 20/09/24	<b>Exp.</b>	: Aug. 2029

S.R	Test	Specification	Observation
1	<b>Description</b>	White to almost white cream or yellowish white powder or crystalline powder.	White powder.
2	<b>Specific rotation <math>[\alpha]^{20}_D</math> (10% in water +0.2ml dil NH<sub>3</sub>)</b>	+54.4 <sup>0</sup> to 55.9 <sup>0</sup>	+54.96 <sup>0</sup>
3	<b>Water</b>	4.8 - 5.4%	5.31%
4	<b>Free acid</b>	0.25 ml N% max	< 0.25 ml N%
5	<b>Insoluble matter</b>	0.005% max	0.002%
6	<b>Alcohol-soluble impurities</b>	0.2% max	<0.2%
7	<b>Sulphated ash</b>	0.05% max	0.04%
8	<b>Nitrogen compounds (N)</b>	0.02% max	< 0.02%
9	<b>Arsenic (As)</b>	0.0001% max	< 0.0001%
10	<b>Copper (Cu)</b>	0.00005% max	< 0.00005%
11	<b>Iron (Fe)</b>	0.0002% max	< 0.0002%
12	<b>Lead (Pb)</b>	0.00005% max	< 0.00005%

**REMARK:** THE PRODUCT COMPLIES WITH THE ABOVE SPECIFICATIONS

**[Tested By]**



**CHEMIST  
(Deepa)**

**[QC Incharge]**



**HEAD-QUALITY ASSURANCE  
(G.G.Salian)**

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