

**CERTIFICATE OF ANALYSIS**

Product Name :	POWDERED CELLULOSE		
Batch No:	2409013-A	Batch Size:	7000 KG
Date of Manufacturing:	06/09/2024	Analysis Report No:	QCD/FS/PWC/24/0057
Retest Date:	60 Months from the date of manufacturing		
Customer Item Code :	N.A.	Grade :	MICCEL - P
Customer Name :	N.A.		

Parameters	Specification	Result
Description	White or almost white powder. Exhibits degree of fineness ranging from a free-flowing dense powder to a coarse, fluffy, non flowing material.	Complies
Solubility	Slightly soluble in sodium hydroxide solution. (1 in 20); insoluble in water, in dilute acids and in nearly all organic solvents.	Passes
Identification Test-A	Violet-blue colour should be produced.	Passes
Identification Test - B (Degree of Polymerisation)	The Degree of Polymerisation is greater than 440	462.6
Total Aerobic Microbial Count CFU/g	NMT 1000	130
Total Combined Yeasts & Molds Count CFU/g	NMT 100	10
Escherichia coli/g	Should be absent	Absent
Pseudomonas aeruginosa /g	Should be absent	Absent
Staphylococcus aureus/g	Should be absent	Absent
Salmonella species/10g	Should be absent	Absent
pH	5.0 to 7.5	6.96
Loss on Drying %	NMT 5.0	4.0
Assay % Cellulose (Calculated on Dried Basis)	NLT 97.0 and NMT 102.0	99.5
Residue on Ignition,% (Calculated on dried basis)	NMT 0.3	0.12
Water Soluble Substances %	NMT 1.5	0.14
Ether soluble substances %	NMT 0.15	0.06
Heavy Metals ppm	Max. 10	0
PSD Weight % retained on 60 mesh (By Retsch, Model-AS200 Digit)	NMT 1 (IH)	Passes
PSD Weight% retained on 200 mesh (By Retsch, Model-AS200 Digit)	NMT 30 (IH)	16.0
PSD Passing from 100 mesh	100%	Passes

**Above batch product complies as per In-House Specification.**  
 The raw materials, manufacturing process and product do not contain any of the solvents listed in Residual Solvents. (Ph. Eur.<5.4>, USP <467>).  
 Note: NMT-Not More Than, NLT- Not Less Than, IH-In-House. PSD-Particle Size Distribution. In-house specification may be changed as per customer requirement.

Date of Sampling: 07/09/2024  
 Date of Release: 13/09/2024  
 Q.C. Head/Designee *[Signature]*