

ALADDIN SCIENTIFIC CORPORATION  
 14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-12-22 14:05:25  
 Date of Next Testing: 2028-12-21 14:05:25  
 Product Name: **Microcrystalline Cellulose**  
 CAS Number: 9004-34-6  
 Specifications & Purity: ChP, JP, Ph.Eur., E 460(i), FCC, NF  
 Lot #: L2518441  
 SKU #: **M489093**  
 Version: **1**  
 Analysis #: **622577**  
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Degree of Polymerization	0-350	350.00000
Arsenic(As)	0-0.0002 (%)	0.00020 %
Chloride (Cl-)	0-0.03 (%)	0.03000 %
Conductivity	0-50 (µS/cm)	18.00000 µS/cm
Ether-soluble substances	0-0.05 (%)	0.05000 %
Heavy metals	0-10 (ppm)	5.00000 ppm
Loss on drying	0-7 (%)	3.00000 %
pH	5.0-7.0	6.40000
Sulphated ash/residue on ignition	0-0.05 (%)	0.02500 %
Water-soluble substances	0-0.2 (%)	0.20000 %
bulk density	0.26-0.31 (g/ml)	0.30000 g/ml
Particle size(retained on air jet sieve)>250µm(60 mesh)	0-1 (%)	0.50000 %
Particle size(retained on air jet sieve)>75µm(200mesh)	≤30 (%)	27.00000 %
Particle size(retained on air jet sieve)>32µm(450mesh)	≥50 (%)	61.00000 %
Identification(1) (Violet-blue color)	Pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility,Dissolves completely	Pass	Pass
Starch(Negative)	Pass	Pass
Total aerobic microbial count(TAMC) (10 <sup>2</sup> cfu/g)	Passes	passes
Total molds and yeasts count(TYMC)(20cfu/g)	Passes	passes
Escherichia coli (absent in 1 g)	passes test	Passes test
Pseudomonas aeruginosa (absent in 1 g)	passes test	Passes test
Salmonella spec.(Absent in 10g)	Passes	passes
Staphylococcus aureus (absent in 1 g)	passes test	Passes test

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Parameter	Limit Values	Result
Particle size (Laser diffraction)(d10:15-30µm d50:45-80µm d90:100-180µm)	Passes	passes
TUP(Technically unavoidable particles(≤9/600cm2))	Pass	Pass
Degree of brightness	Conforms	Conforms
Powder flow-angle of repose (Passable or better)	Passes	passes



John Su  
QA & QC Manager