QualityAssurance@aladdinsci.com
ALADDIN SCIENTIFIC CORPORATION
14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing:	2026-09-14 16:32:48
Date of Next Testing:	2029-09-13 16:32:48
Product Name:	**Microcrystalline Cellulose**
CAS Number:	9004-34-6
Grades & Purity:	ChP, JP, Ph.Eur., E 460(i), FCC, NF
Lot #:	I2611627
SKU #	**M489093**
Version	**1**
Analysis #:	**772804**
Storage Temperature:	Room temperature

Parameter	**Limit Values**	**Result**
Degree of Polymerization	0-350	150.00000
Arsenic(As)	0-0.0002（%）	0.00012 %
Chloride (Cl-)	0-0.03（%）	0.01300 %
Conductivity	0-50（μS/cm）	26.00000 μS/cm
Ether-soluble substances	0-0.05（%）	0.03400 %
Heavy metals	0-10（ppm）	5.00000 ppm
Loss on drying	0-7（%）	3.40000 %
pH	5.0-7.0	6.10000
Sulphated ash/residue onignition	0-0.05（%）	0.02500 %
Water-soluble substances	0-0.2（%）	0.10000 %
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（%）	25.00000 %
Particle size(retained on air jet sieve)>32μm(450mesh)	≥50（%）	57.00000 %
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) (10^2cfu/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