

Certificate of Analysis

Date of Testing: 2024-12-25 09:47:09

Date of Next Testing: 2027-12-25 09:47:09

Product Name: **Microcrystalline Cellulose**

CAS Number: 9004-34-6

Specifications & Purity: Ph.Eur., NF, JP, ChP, E 460(i), FCC

Lot #: L2424004

SKU #: **M489093**

Version: **1**

Analysis #: **447030**

Parameter	Limit Values	Result
Degree of Polymerization	0-350	110.10
Arsenic(As)	0-0.0002 (%)	0.00000 %
Chloride (Cl-)	0-0.03 (%)	0.01 %
Conductivity	0-50 (μS/cm)	23.00000 μS/cm
Ether-soluble substances	0-0.05 (%)	0.01430 %
Heavy metals	0-10 (ppm)	5.30 ppm
Loss on drying	0-7 (%)	3.00 %
Sulphated ash/residue on ignition	0-0.05 (%)	0.02100 %
Water-soluble substances	0-0.2 (%)	0.16 %
bulk density	0.26-0.31 (g/ml)	0.31 g/ml
Particle size(retained on air jet sieve)>250μm(60 mesh)	0-1 (%)	0.42100 %
Particle size(retained on air jet sieve)>75μm(200mesh)	≤30 (%)	26.00000 %
Particle size(retained on air jet sieve)>32μm(450mesh)	≥50 (%)	59.00000 %
PH	5.0-7.0	6.30
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 ² 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
Particle size (Laser diffraction)(d10:15-30μm d50:45-80μm d90:100-180μm)	Passes	passes



ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Parameter	Limit Values	Result
TUP(Technically unavoidable particles($\leq 9/600\text{cm}^2$))	Pass	Pass
Degree of brightness	Conforms	Conforms
Powder flow-angle of repose (Passable or better)	Passes	passes
Staphylococcus aureus (absent in 1 g)	passes test	Passes test

A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager