

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

Certificate of Analysis

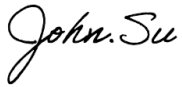
Date of Testing: 2026-06-22 11:56:47
 Date of Next Testing: 2029-06-21 11:56:47
 Product Name: **Microcrystalline Cellulose**
 CAS Number: 9004-34-6
 Specifications & Purity: ChP, JP, Ph.Eur., E 460(i), FCC, NF
 Lot #: F2612171
 SKU #: **M489093**
 Version: **1**
 Analysis #: **622577**
 Storage Temperature: 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 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 |
| 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