

Certificate of Analysis

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|--------------------------|---|
| Date of Testing: | 2024-02-20 13:48:42 |
| Date of Next Testing: | 2027-02-19 13:48:42 |
| Product Name: | Silicified Microcrystalline Cellulose |
| CAS Number: | 9004-34-6 |
| Specifications & Purity: | Ph.Eur., NF, JP, E 460(i) and Silica, Colloidal Anhydrous, Ph.Eur., E 551 |
| Lot #: | A2424392 |
| SKU # | S489679 |
| Analysis: | 277690 |

| Parameter | Limit Values | Result |
|---|-----------------------|-----------------------|
| Degree of Polymerization | 0-350 | 242.00 |
| PH | 5-7 | 6.00 |
| Conductivity | 0-75 (μS/cm) | 37.00000 μS/cm |
| Loss on drying | 0-6 (%) | 4.40 % |
| Water soluble matter | 0-0.24 (%) | 0.16000 % |
| Ether-soluble substances | 0-0.05 (%) | 0.03000 % |
| Heavy metals | 0-10 (ppm) | 5.00 ppm |
| Residue on Ignition | 1.8-2.2 (%) | 2.00000 % |
| Tapped density | 0.37-0.5 (g/ml) | 0.44000 g/ml |
| bulk density | 0.25-0.37 (g/ml) | 0.33 g/ml |
| Particle size(air jet)+200mesh(+75μm) | 45-80 (%) | 57.00000 % |
| Particle size(airjet)+60mesh(+250μm) | 0-8 (%) | 0.60000 % |
| Particle size by Malven d10 | 20-50 (μm) | 38.00000 μm |
| Particle size by Malvern d50 | 90-150 (μm) | 124.00000 μm |
| Particle size by Malvern d90 | 190-300 (μm) | 251.00000 μm |
| Total aerobic microbial count(TAMC) (10 ² cfu/g) | Passes | passes |
| Total molds and yeasts count(TYMC)(20cfu/g) | Passes | passes |
| Staph. aureus E.coli, Pseudomonas aeruginosa(Absent in 1 g) | Passes | passes |
| Salmonella spec.(Absent in 10g) | Passes | passes |
| Solubility in copper tetrammine,Dissolves completely | Pass | Pass |
| Infrared spectrum | Conforms to Structure | Conforms to Structure |



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

John Su
QA & QC Manager