



## Certificate of Analysis

### Microcrystalline Cellulose 102 USP-NF/EP/BP/JP

**Catalog Number:** MC1002  
**Lot Number:** 0324703  
**CAS Number:** 9004-34-6  
**Storage:** 15°C – 30°C  
**Date of Manufacture:** July 1, 2014  
**Retest Date:** June 30, 2019

Test	Specification	Result
Appearance	White to almost white, fine to granular powder	Conforms
Assay	97.0 – 102.0%	99.20%
Identification A (Zinc Chloride test)	To meet requirements	Conforms
Identification B	Degree of polymerization $\leq 350$	< 350
Granulometry	60mesh $\leq 8\%$ remains 200mesh $\geq 45.0\%$	1.5% remains 58.1% remains
Conductivity	$\leq 75 \mu\text{S/cm}$	< 75 $\mu\text{S/cm}$
Solubility	To meet requirements	Conforms
pH	5.0 - 7.5	6.15
Moisture (LOD)	$\leq 7.0\%$	3.5%
Residue on Ignition	$\leq 0.1\%$	0.025%
Water Soluble Substances	$\leq 0.25\%$	0.16%
Ether Soluble Substances	$\leq 0.05\%$	0.014%
Heavy Metals	$\leq 10 \text{ ppm}$	< 10 ppm
Total Aerobic Count	$\leq 1,000\text{cfu/g}$	60cfu/g
Total Yeast and Mold Count	$\leq 100\text{cfu/g}$	Nil
<i>E. coli</i>	Negative	Conforms
<i>P. aeruginosa</i>	Negative	Conforms
<i>S. aureus</i>		
<i>Salmonella</i>	Negative	Conforms

Approved by:

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