



Certificate of Analysis

Product Name	Hydroxyethyl Cellulose(HEC)		
INCI Name:	HYDROXYETHYLCELLULOSE		
CAS	9004-62-0		
MF	C29H52O21		
EINECS	618-387-5		
Batch Number	20260609	Manufacture Date	20260609
Report Date	20260609		

Items Tested	Specifications	Results	Test Method
Physical and Chemical Analysis			
Appearance	White Powder	Complies	Organoleptic examination
Viscosity (map.s) 2%(25°Caqueous solution)	50000	50020	USP <911>
Transmittance	>80	92	UV-Vis Spectrophotometry
Molar substitution	1.8-2.1	2.02	Titration / Chemical Method
Moisture	<5%	4.74	USP <921>
Hydration time	4-25Minute	20	Visual / Timed Observation
PH	6-8.5	7.02	USP <791>
Insoluble matter	<0.5%	0.42	Gravimetric Method
Physical Characteristics			
Loss on Drying	≤ 5.00%	4.55%	USP <731> / Ph.Eur. 2.2.32
Total ash	≤ 5.50%	2.84%	USP<561>
Bulk Density	0.45–0.60 g/mL	0.53 g/mL	USP <616> / Ph.Eur. 2.9.34
Heavy Metals (ICP-MS)			
Lead (Pb)	≤ 10 ppm	<0.5 ppm	ICP-MS
Arsenic (As)	≤ 2 ppm	<0.1 ppm	ICP-MS
Cadmium (Cd)	≤ 1 ppm	<0.1 ppm	ICP-MS
Mercury (Hg)	≤ 1 ppm	<0.05 ppm	ICP-MS
Microbial Limits			
Total Aerobic Microbial Count	≤ 1000 CFU/g	<10 CFU/g	USP <61> / Ph. Eur. 2.6.12
Total Yeast and Mold Count	≤ 100 CFU/g	<10 CFU/g	USP <61> / Ph. Eur. 2.6.12
E. coli	Absent in 1g	Absent	USP <62> / Ph. Eur. 2.6.13
Salmonella spp.	Absent in 10g	Absent	USP <62> / Ph. Eur. 2.6.13
Pseudomonas aeruginosa	Absent in 1g	Absent	USP <62> / Ph. Eur. 2.6.13

Quality Statement: This product is manufactured under a quality system compliant with cGMP principles for both food and cosmetic applications. Specifications and test methods are established with reference to the relevant ISO Standards, Chinese National Standards (GB), United States Pharmacopeia (USP), and European Pharmacopoeia (Ph. Eur.).

For cosmetic use, the batch fully complies with the requirements of EU Cosmetic Regulation (EC) No 1223/2009, China's Safety Technical Standards for Cosmetics (2015 Edition), and U.S. FDA cosmetic GMP guidelines. For food use, the batch meets the applicable requirements of China's national food safety standards (including GB 2762, GB 2763, GB 7101) and the U.S. FDA Food Safety Modernization Act (FSMA) and applicable food additive regulations.

Storage: Store in tight, light-resistant containers. Avoid exposure to direct sunlight, moisture, and excessive heat.

Shelf Life: 24 months if stored under the above conditions and remains in original packaging.