

CERTIFICATE OF ANALYSIS**Hydroxypropyl-beta-cyclodextrin EP12.0**

Batch Number	HB260304
Manufacture Date	Mar 19 2026
Retest Date	Mar 18 2029
Molecular Weight	Not Provided
CAS Number	94035-02-6

Tests	Specifications	Results
Appearance	White or almost white amorphous or crystalline powder	White amorphous powder
Solubility	Freely soluble in water & in propylene glycol	Conforms
Identification	IR	Positive
Appearance of solution	The solution is clear and colorless	Conforms
Conductivity	≤ 200 us/cm	64 us/cm
Impurity A	$\leq 1.5\%$	0.3%
Impurity B (GC)	$\leq 2.5\%$	Absent
Sum of impurities other than A (HPLC)	$\leq 1.0\%$	0.02%
Heavy metals	≤ 20 ppm	< 20 ppm
Loss on drying (120°C, 2hr)	$\leq 10.0\%$	3.2%
pH	5.0 ~ 7.5	6.6
Total aerobic microbial count	≤ 1000 cfu/g	10 cfu/g
Total yeasts and molds count	≤ 100 cfu/g	10 cfu/g
Escherichia coli	Absent	Absent
Salmonella	Absent	Absent
Assay (Molar substitution)	0.4 ~ 1.5	0.7
Degree of substitution (7*Mol-ar substitution)	2.8 ~ 10.5	4.9

Conclusion: Material complies with EP12.0

Storage Conditions: Preserve in tight and light-resistant containers. Store at room temperature.

Storage Disclaimer: Storage conditions are provided by the manufacturer and are intended to maximise product shelf life during long-term storage.

Certificate Disclaimer: This certificate is a reformatted interpretation of analytical results supplied on the original manufacturer's Certificate of Analysis. Results and specifications are based on information provided by the manufacturer.