



CERTIFICATE OF ANALYSIS

Product Name	L-HPC (Low-Substituted Hydroxypropyl Cellulose, NF)
Grade	LH-11
Lot Number	2114174
Manufacture Date	2022/11/11
Recommended Re-Evaluation Date *	2025/11/10
Analysis Date	2022/11/14
Issue No.	D5120221109105002-1-01

Test Item	Unit	Test Result	Specification	Method
Description		Conforms	Conforms	JP/NF
Characters		Conforms	Conforms	EP
Identification (1)/B		Conforms	Conforms	JP/NF/EP
Identification (2)/C		Conforms	Conforms	JP/NF/EP
Identification (3)/A		Conforms	Conforms	JP/NF/EP
pH		6.7	5.0 - 7.5	JP/NF/EP
Heavy Metals	ppm	Not more than 10	Not more than 10	JP
Chloride	%	Not more than 0.36	Not more than 0.36	NF
Loss on drying	%	0.6	Not more than 5.0	JP/NF/EP
Residue on ignition	%	0.16	Not more than 0.8	JP/NF/EP
Hydroxypropoxy content	%	11.0	10.0 - 12.9	JP/NF/EP
Particle size: Average (D50)	μm	53.5	45 - 65	Shin-Etsu
Particle size: 90% cumulation (D90)	μm	171.6	150 - 200	Shin-Etsu