



武汉福鑫化工有限公司

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### CERTIFICATE OF ANALYSIS

Products Name	CAS NO.	Batch No.
2-Hydroxypropyl- $\beta$ -cyclodextrin	128446-35-5	20240220
Mfg. Date	Exp. Date	Package
Feb., 20, 2024	Feb., 19, 2026	20kg/ Box

ITEMS	SPECIFICATIONS	RESULTS
Appearance	White or almost white, amorphous or crystalline powder	White amorphous powder
Solubility	Freely soluble in water and in propylene glycol	Confirm
Identification	IR, The spectrum obtained with the substance to be examined shows the same absorption bands as the spectrum obtained with hydroxypropylbetadex CRS.	Confirm
Appearance of solution	The solution is clear and colorless	Confirm
Betacyclodextrin %	$\leq 1.0$	0.32
Heavy Metals ppm	$\leq 20$	$< 20$
Residue on Ignition %	$\leq 3$	1.7
pH	5.0 – 7.5	6.9
Loss on Drying %	$\leq 6.0$	5.0
Molar Substitution (MS)	0.40 – 1.50	0.861
Degree of Substitution DS (7*MS)	2.80 -10.50	6.03
Conclusion	QUALIFIED.	

Q.C.: Luo Xiaofeng

Tester: AT02

Re-tester: AT03