

Certificate of Analysis

Product Name	Beta-Cyclodextrin	Mfg. Date	2021.01.07
Batch No.	KN210107	Testing Date	2021.01.08
CAS No.	7585-39-9	Exp. Date	2023.01.06

Items	Specifications	Results
Appearance	White, practically odorless, fine crystalline powder having a slightly sweet taste. Sparingly soluble in water.	Complies
Identification	IR: Same absorption bands as USP beta cyclodextrin RS	Complies
	LC: The retention time of the major peak of sample solution corresponds to the standard solution	Complies
	Optical rotation: +160° ~+164°	+162.1°
	Iodine test solution: a yellow-brown precipitate is formed	Complies
Residue on ignition	≤0.1%	Complies
Reducing sugars	≤0.2%	Complies
Light-absorbing impurities	Between 230nm and 350nm, the absorbance is not greater than 0.10; and between 350nm and 750nm, the absorbance is not greater than 0.05.	Complies
Alpha cyclodextrin	≤0.25%	Complies
Gamma cyclodextrin	≤0.25%	Complies
Other related substances	≤0.5%	Complies
Water content	≤14.0%	11.3%
Color and clarity of solution	0.2g/20ml water solution is clear and colorless	Complies
pH	5.0-8.0	6.4
The total aerobic microbial count	≤1000cfu/g	10cfu/g
the total combined moulds and yeast count	≤100cfu/g	<10cfu/g
Assay (HPLC)	98.0%~102.0%	99.78%
Conclusion:	The product complies with USP42-NF37.	

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