SHANDONG OCTAGON CHEMICALS LIMITED

CERTIFICATE OF ANALYSIS

Product name	**Betadex Sulfobutyl Ether Sodium(Cas 182410-00-0)**		
Batch No.	2020512	Mfg. Date	2020.05.12
Rep. Date	2020.05.25	Exp. Date	2022.05.11
Packing	25kg/drum	Batch Quantity	695KG
Test Items	Standards: USP42		Results
Appearance	White to off-white amorphous crystalline powder		White amorphous powder
Solubility	Freely soluble in water, sparingly soluble in methanol; practically insoluble in ethanol, n-hexane, 1-butanol, acetonitrile, 2-propanol, or ethylacetate		Conforms
Identification	Should conform		Conforms
Assay (on dried basis)	95.0%~105.0%		99.87%
PH	4.0~6.8		5.86
Clarity of solution	Should conform		conforms
Related Substances	Limit of beta cyclodextrin: NMT0.1%		0.048%
	Limit of 1,4-Butane sultone: NMT0.5ppm		0.041ppm
	Limit of sodium chloride: NMT0.2%		0.026%
	Limit of 4-hydroxybutane-1-sulfonic acid: NMT0.09%		UD
	Limit of Bis(4-sulfobutyl)ether disodium: NMT0.05%		UD
Peak distribution	Should conform		conforms
Water	NMT10.0%		3.15%
DS(7*MS)	6.2~6.9		6.48
Microbial requirements	TAMC(cfu/g): NMT100 TYMC(cfu/g) NMT50 E. Coli & Salmonella: Should be absent		<10 <10 ND
Conclusion	It meets the requirements of Enterprise Standards		
Storage	Store in a well-closed container at ambient temperature		
Prepared by: LI	Reviewed by: WEI		Released by:Zhang

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