



Certificate of Analysis

Product name	Sodium Hydroxyethyl sulfonate	Manufacture date	Sep.15.2023
Batch number	SW230915	Analysis date	Sep.16.2023
Batch quantity	100kg	Expiry date	Sep.15.2025

Item	Specification	Result
Identification	A.H-NMR:Comply with the structure	Conforms
	B. LC-MS:Comply with the structure	Conforms
	C. The IR spectrum of sample should be identical with that of reference standard	Conforms
	D. HPLC-ESI-MS The retention time of the major peak in the chromatogram of the Assay preparation corresponds to that in the chromatogram of the Standard preparation, as obtained in the Assay.	Conforms
Loss on drying	$\leq 2.0\%$	0.19%
Heavy metals	$\leq 10\text{ppm}$	Conforms
Assay	$\geq 99\%$	99.59%
Water	$\leq 1.0\%$	0.10%
Sulphated ash	$\leq 0.5\%$ determined on 1.0 g.	0.009%
Residue on ignition	$\leq 0.1\%$	0.03%
Related substances	Unspecified impurities:for each impurity $\leq 0.10\%$	0.10%
	Total Impurities $\leq 0.50\%$	0.18%
Conclusion	Conforming to Enterprise Standard	

Packing description:	Sealed export grade drum & double of sealed plastic bag
Storage:	Store in cool & dry place. keep away from strong light and heat
Shelf life:	2 years when properly stored

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Analyst: 方斌

