



CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by Intertek. Certificate Number. 2317548

Catalogue Number	29756
Lot Number	A0457310

Description Hydroxypropyl-beta-cyclodextrin,97%

CAS Number 128446-35-5 Quality Test/Release Date 25/Apr/2025 25/Apr/2028 Suggested retest date CHINA Country of Origin Declaration of Origin synthetic

Not directly derived from or manufactured with any animal byproducts in any way BSE/TSE

(Including but not limited to fermentation or nutrient broth, catalysts, enzymes).

Result Name	Units	Specifications	Test Value
Appearance (Color)		White to light yellow	White
Appearance (Form)		Powder	Powder
Infrared spectrum		Conforms	Conforms
HPLC	%	>=96.0 (On dry substance)	99.3 (On dry substance)
HPLC	%	=<2.0 Residual beta-cyclodextrin	=<2.0 Residual beta-cyclodextrin
		(On dry substance)	(On dry substance)
NMR		2 to 6 (degree of substitution)	2 to 6 (degree of substitution)
NMR		substituents are located mainly at	substituents are located mainly at
		O(2) of the	O(2) of the
NMR		anhydroglucopyranose units	anhydroglucopyranose units
Water	%	=<7.5 (K.F.)	4.7 (K.F.)

Geert Torfs Supervisor, QC

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third-party data or information associated with the product. Products are for research and development use only. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.