

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	12453			
Lot Number	A0468109			
Description	beta-Nicotinamide adenine dinucleotide hydrate,98+%			
CAS Number	53-84-9			
Quality Test/Release Date	10/Jan/2025			
Suggested retest date	10/Jan/2028			
Country of Origin	CHINA			
Declaration of Origin	Microbial	Microbial		
BSE/TSE	Not directly derived from or manufactured with any animal byproducts in any way			
RSE/TSE	i tot an ootij			
BSE/TSE		ut not limited to fermentation or nutr		
BSE/TSE Result Name				
	(Including b	ut not limited to fermentation or nutr	ient broth, catalysts, enzymes).	
Result Name	(Including b	ut not limited to fermentation or nutr Specifications	ient broth, catalysts, enzymes). Test Value	
Result Name Appearance (Color)	(Including b	ut not limited to fermentation or nutr Specifications White to yellow	ient broth, catalysts, enzymes). Test Value Almost white	
Result Name Appearance (Color) Appearance (Form)	(Including b	ut not limited to fermentation or nutr Specifications White to yellow Powder	ient broth, catalysts, enzymes). Test Value Almost white Powder	
Result Name Appearance (Color) Appearance (Form) Infrared spectrum	(Including b	ut not limited to fermentation or nutr Specifications White to yellow Powder Conforms	ient broth, catalysts, enzymes). Test Value Almost white Powder Conforms	
Result Name Appearance (Color) Appearance (Form) Infrared spectrum UV spectrophotometry Water	(Including b Units % %	ut not limited to fermentation or nutr Specifications White to yellow Powder Conforms >=98.0	ient broth, catalysts, enzymes). Test Value Almost white Powder Conforms 98.3 7 (K.F.)	
Result Name Appearance (Color) Appearance (Form) Infrared spectrum UV spectrophotometry	(Including b Units %	ut not limited to fermentation or nutr Specifications White to yellow Powder Conforms >=98.0 =<11 (K.F.)	ient broth, catalysts, enzymes). Test Value Almost white Powder Conforms 98.3	

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.

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of the catalogue number listed above.