

**CERTIFICATE OF ANALYSIS**

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by TUV SUD America Inc.  
Certificate Number. 951001163

Catalogue Number J62926  
Lot Number P07L009  
Description Protamine sulfate  
CAS Number 9009-65-8  
Quality Test/Release Date 07/Mar/2025  
Suggested retest date 07/Mar/2030  
Country of Origin Japan  
Declaration of Origin Other  
BSE/TSE Source: Salmon Sperm

Result Name	Units	Specifications	Test Value
Activity (U)	USP u/mg	≥100 (USP u/mg)	153
Assay (unspecified)	%	≥96.0%	96
Appearance (Color)		White to gray	White
Form		Powder	Powder
Identification (FTIR)		PASS	PASS
Loss on Drying	%	≤5.0%	<3
Source		Salmon Sperm: PASS	PASS
Sulfate content	%	16-22%	22



Luis Perez  
Interim Director Quality, LCD

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.