

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 A17522
Lot Number Z151002
Description Bilirubin 97%
CAS Number 635-65-4
Quality Test/Release Date 24/Dec/2025
Suggested retest date 24/Dec/2028
Country of Origin United States

Result Name	Units	Specifications	Test Value
Assay (unspecified)	%	≥96.0 to ≤104.0% (based on C, H, N EA, non-U.S. sourced material)	97.4 (C);97.9 (H);96.7 (N)
Appearance (Color)		Red to orange to brown	Orange
Elemental Analysis	%	(Nitrogen, N) : 9.20-9.96% (theory 9.58%) (non-U.S. sourced material)	9.27
Elemental Analysis	%	(Hydrogen, H) : 5.95-6.45% (theory 6.20%) (non-U.S. sourced material)	6.07
Elemental Analysis	%	(Carbon, C) : 65.0-70.4% (theory 67.7%) (non-U.S. sourced material)	66.0
Form		Powder	Powder
Identification (FTIR)		Conforms (non-U.S. sourced material)	Conforms
Loss on Drying	%	≤ 2.0% (200°C/constant wt.)	1.33
lambda-max (UV-Vis)	nm	450-454nm (in Chloroform, non-U.S. sourced material)	453



Derek Roy
Quality Manager, 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.