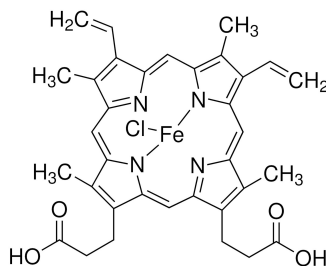


Certificate of Analysis

Product Name : Hemin from bovine, $\geq 90\%$
Product Number : H9039-100G
Batch Number : 0000468519
 Source Batch : 0000447243
 CAS Number : 16009-13-5
 MDL Number : MFCD00010726
 Storage Temperature : +2°C to +8°C
 Molecular Formula : $C_{34}H_{32}ClFeN_4O_4$
 Formula Weight : 651.94 g/mol
 Quality Release Date : 25 Jun 2025



Test	Specification	Result
Appearance (Color)	Brown to Black	Brown-Black
Appearance (Form)	Powder	Powder
Solubility (Color)	Dark Green-Brown	Dark Green-Brown
25 mg/mL, 1.4 M NH ₄ OH		
Infrared Spectrum	Conforms to Structure	Conforms
Water (by Karl Fischer)	$\leq 2.0 \%$	0.3 %
EmM	≥ 4.14	4.53
at Lamda max 613 nm		
Performance	Pass	Pass
Nitrogen (anhydrous)	$\geq 7.7 \%$	8.5 %
Iron (anhydrous)	$\geq 7.7 \%$	8.5 %
Purity	$\geq 90 \%$	98 %
Based on UVVS		

Jagodige Yasomanee, Supervisor

Quality Assurance

St. Louis, Dekalb

US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchase must determine the suitability of the product for its particular use. See reverse side of website or packing slip for additional terms and conditions of sale

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