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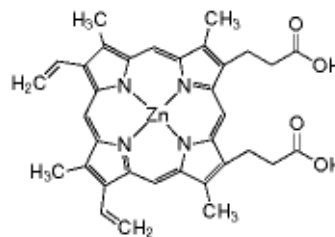
Outside USA: eurtechserv@sial.com

Product Name:

Certificate of Analysis

Protoporphyrin IX zinc(II) - guanylate cyclase inhibitor

Product Number: 282820
Batch Number: MKBN5610V
Brand: SIAL
CAS Number: 15442-64-5
MDL Number: MFCD00011612
Formula: C₃₄H₃₂N₄O₄Zn
Formula Weight: 626.03 g/mol
Quality Release Date: 08 JAN 2013



Test	Specification	Result
Appearance (Color)	Red to Very Dark Red and Purple to Very Dark Purple	Very Dark Red
Appearance (Form)	Powder or Crystals	Powder
Infrared spectrum	Conforms to Structure	Conforms
Wavelength	585 - 591 nm	589 nm
Extinction Coefficient	≥ 10000	17096
Wavelength	548 - 554 nm	552 nm
Extinction Coefficient	≥ 12000	19734
In Pyridine		
Wavelength	423 - 429 nm	426 nm
Extinction Coefficient	≥ 135000	270070
In Pyridine		
Carbon	58.7 - 71.8 %	66.1 %
Nitrogen	8.1 - 9.8 %	8.7 %
Purity (HPLC)	≥ 95 %	99 %

Jamie Gleason, Manager
 Quality Control
 Milwaukee, Wisconsin 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. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.