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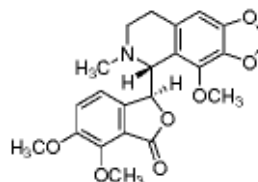
Email USA: techserv@sial.com

Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
(S,R)-Noscapine - 97%

Product Number: 363960
Batch Number: MKBL1593V
Brand: ALDRICH
CAS Number: 128-62-1
MDL Number: MFCD00069316
Formula: C₂₂H₂₃NO₇
Formula Weight: 413.42 g/mol
Quality Release Date: 11 JUN 2012



Test	Specification	Result
Appearance (Color)	White to Off-White	White
Appearance (Form)	Powder or Crystals	Powder
Infrared spectrum	Conforms to Structure	Conforms
Carbon	61.6 - 66.1 %	63.4 %
Nitrogen	3.1 - 3.7 %	3.1 %
Optical Rotation Degrees, c = 1%; Chloroform	-205.0 - -195.0	-198.7
Purity (HPLC)	≥ 96.5 %	99.1 %

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.