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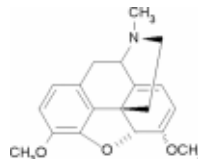
Email USA: techserv@sial.com

Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
Thebaine - powder

Product Number: T2019
Batch Number: SLBP3559V
Brand: SIGMA
CAS Number: 115-37-7
MDL Number: MFCD00027409
Formula: C₁₉H₂₁NO₃
Formula Weight: 311.37 g/mol
Quality Release Date: 16 SEP 2015



Test	Specification	Result
Appearance (Color)	White to Off-White	Off-White
Appearance (Form)	Powder	Powder
Infrared Spectrum	Conforms to Structure	Conforms
Titration	≥ 98 %	100 %
Purity (HPLC)	≥ 98 %	99 %
Purity (TLC)	≥ 98 %	99 %

Rodney Burbach, Manager
Analytical Services
St. Louis, Missouri 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.