



CERTIFICATE OF ANALYSIS

20 Martin Ross Avenue, North York, ON, M3J 2K8, CANADA
Tel: (416) 665-9696, Fax: (416) 665-4439
Email: orders.trc@lgcgroup.com Website: www.trc-canada.com

1. Identification

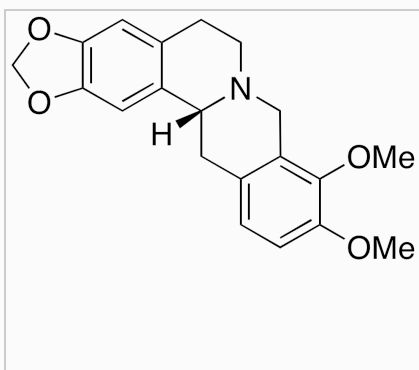
Catalogue Number: C175170

CAS Number: 2086-96-6

Product: (R)-(+)-Canadine

Synonym: (R)-5,8,13,13a-Tetrahydro-9,10-dimethoxy-6H-benzo[g]-1,3-benzodioxolo[5,6-a]quinolizine; (+)-Canadine; (+)-Tetrahydroberberine; (R)-(+)-7,8,13,13a-Tetrahydroberberine; 9,10-Dimethoxy-2,3-(methylenedioxy)-13a β -berbine; d-Canadine; β -Canadine

Structure:



Molecular Formula:

C₂₀H₂₁NO₄

Molecular weight:

339.39

Source of Product:

Synthetic

Solubility:

Chloroform (Slightly),
Methanol (Slightly, Heated)

Lot Number: 8-GUY-144-1

Purity: 96%

Shipping Condition: This Product Is Stable To Be Shipped At Room Temperature

Storage Condition: 4°C

2. Warning

Warning 1: Not Determined

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	Pale Yellow Solid	Pale Yellow Solid
NMR	Conforms to Structure	Conforms
MS	Conforms to Structure	Conforms
Specific Rotation	Report Result	+270.0° (c = 0.9, Chloroform)
HPLC Purity	>95%	99.90% (230 nm)

Additional Information:

TLC Conditions: SiO₂; Dichloromethane : Methanol = 9 : 1; Visualized with UV and KMnO₄; Single Spot, R_f = 0.60.

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of \pm 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

Reviewed By	Reviewed By	C of A Approved By	Test Date	Retest Date
Nicole Yip	Eric Beaton	My Nguyen	11/5/2019	11/3/2026