



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

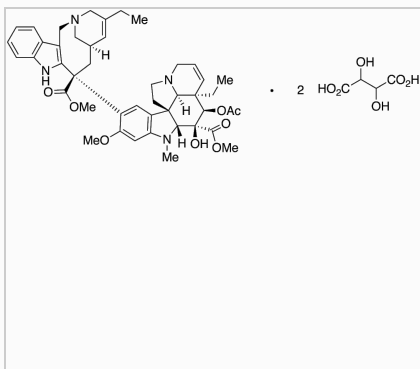
Catalogue Number: V315000

CAS Number: 125317-39-7

Product: Vinorelbine Bitartrate

Synonym: 3',4'-Didehydro-4'-deoxy-C'-norvincal leukoblastine Ditartrate ; Nor-5'-anhydrovinblastine Ditartrate ; Eunades; Navelbine; Vinorelbine Tartrate

Structure:



Molecular Formula:

$C_{45}H_{54}N_4O_8 \cdot 2C_4H_6O_6$

Molecular weight:

778.95 + 2(150.09)

Source of Product:

N/A

Solubility:

Chloroform (Slightly, Heated, Sonicated), Methanol (Slightly)

Lot Number: 2-HAB-52-1

Purity: 97%

Shipping Condition: This Product Is Stable To Be Shipped With Dry Ice

Storage Condition: -86°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	White to Off-White Solid	White Solid
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 56.26, %H: 6.05, %N: 4.48
Water Content	Report Result	4.7% by Karl Fischer
Specific Rotation	Report Result	+79.7° (c = 0.5, Chloroform)
MS	Conforms to Structure	Conforms
HPLC Purity	Report Result	98.76% (215 nm)

Additional Information: N/A

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
Meenakshi Sharma	Toni Rantanen	Chanell Chu	9/20/2021	9/18/2025