



CERTIFICATE OF ANALYSIS

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1. Identification

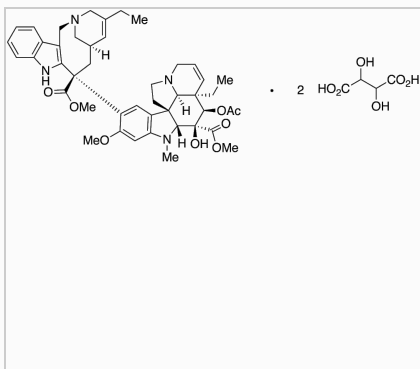
Catalogue Number: V315000

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:

Synthetic

Solubility:

Chloroform (Slightly),
Methanol (Slightly)

Lot Number: 711857487-1-1

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:
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 57.11, %H: 6.39, %N: 5.05
MS	Conforms to Structure	Conforms
Appearance	White to Off-White Solid	White to Off-White Solid
Specific Rotation	Report Result	+78.2° (c = 0.2, Chloroform)

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	10/16/2023	10/14/2027