



CERTIFICATE OF ANALYSIS

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1. Identification

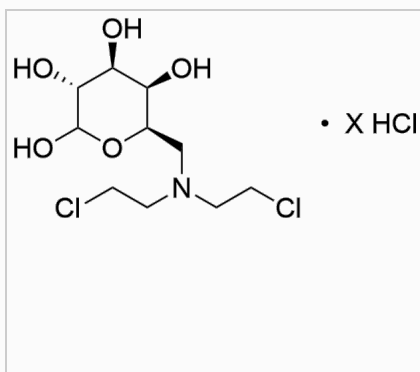
Catalogue Number: G253470

CAS Number: NA

Product: Galamustine Hydrochloride (>85%)

Synonym: 6-[Bis(2-chloroethyl)amino]-6-deoxy-D-galactopyranose Hydrochloride

Structure:



Molecular Formula:

$C_{10}H_{19}Cl_2NO_5 \cdot x(HCl)$

Molecular weight:

$304.17 + x(36.46)$

Source of Product:

Synthetic

Solubility:

Methanol (Slightly), Water (Slightly)

Lot Number: 23-UPA-129-2

Purity: >85%

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

Storage Condition: 4°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	Pale Yellow to Brown Oil to Thick Oil	Clear Pale Yellow Thick Oil
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 25.23, %H: 7.00, %N: 3.38
MS	Conforms to Structure	Conforms
Water Content	Report Result	22.5% by Karl Fischer
Specific Rotation	Report Result	+42.8° (c = 0.5, Water)
Chloride Content	Report Result	15.3%
C NMR	Conforms to Structure	Conforms

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
Henry Tieu	Toni Rantanen	Chanell Chu	6/3/2022	6/1/2026