



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:	$C_{10}H_{19}Cl_2NO_5 \bullet x(HCl)$
		Molecular weight:	$304.17 + x(36.46)$
		Source of Product:	N/A
		Solubility:	Methanol (Slightly), Water (Slightly)
Lot Number:	22-SBL-109-1	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 Thick Brown Oil
Elemental Analysis	Conforms	%C: 29.07, %H: 6.62, %N: 3.66
NMR	Conforms to Structure	Conforms
C NMR	Conforms to Structure	Conforms
MS	Conforms to Structure	Conforms
Chloride Content	Report Result	12.8%
Specific Rotation	Report Result	+48.0° (c = 0.2, Water)
Water Content	Report Result	~14.6% based on Elemental Analysis

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
Evan Burns	Toni Rantanen	Chanell Chu	6/2/2022	5/31/2026
Evan Burns				