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Certificate of Analysis

Product Name	Choline chlorid	e, USP grade		
Glentham Code	GV9961			
CAS Number	67-48-1			Cl⁻
EINECS	200-655-4			
MDL Number	MFCD0001172	21	H ₃ C	
Additional CAS	62-49-7			
Batch Number	310GIV		LIFI	N ⁺ OH
Molecular Weight	139.63		H ₃ C	
Molecular Formula	C ₅ H ₁₄ CINO			ĊH ₃
Storage Temp.	+20°C			2
Property		Specification		Batch 310GIV
Physical Description	Colourless crystals or w		e crystalline powd	erConforms
Identification		A, B according to USP		Conforms
pH (10% in water)		4.0 - 7.0		5.6
Residue on Ignition		≤ 0.05%		0.03%
Heavy Metals		≤ 10ppm		Conforms
Lead (Pb)		To pass test		Conforms
Arsenic (As)		≤ 1ppm		Conforms
Mercury (Hg)		≤ 0.1ppm		Conforms
Cadmium (Cd)		≤ 1ppm		Conforms
Any Individual Impurity		≤ 0.3%		Conforms
Total Impurities		≤ 2.0%		Conforms
1,4-Dioxane		≤ 10µg/g		Conforms
Total Amines		≤ 10µg/g		Conforms
Water		≤ 0.5%		0.3%
Assay		99.0 - 100.5 % (anhydrous	basis)	99.2%
Pharmacopoeia Specification(s)		USP		Conforms

Specification Version	v1.0
Manufacture Date	2023-02-20
Re-Test Date	2029-05-18

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glentham.com or contact us using the details above for the current version of this document.

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