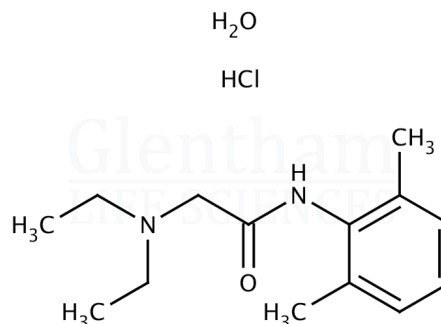


Certificate of Analysis

Product Name	Lidocaine hydrochloride monohydrate, EP grade
Glentham Code	GP3932
CAS Number	6108-05-0
EINECS	200-803-8
MDL Number	MFCD00150329
Additional CAS	73-78-9
PubChem SID	310275797
Batch Number	667FHM

Molecular Weight	288.82
Molecular Formula	$C_{14}H_{22}N_2O \cdot HCl \cdot H_2O$
Storage Temp.	+20°C



Property	Specification	Batch 667FHM
Physical Description	White or almost white crystalline powder, very soluble in water, freely soluble in ethanol	White crystalline powder
Identification	Melting Point: 74 - 79 °C	76 - 78 °C
	IR	Conforms
	Reaction of alcoholic potassium hydroxide solution	Conforms
	Reaction of chlorides	Conforms
Appearance of Solution	5% solution: Clear and colourless	Conforms
pH	4.0 - 5.5	5.09
Related Substances	Impurity A: ≤ 0.01%	0.0003%
	Each Unspecified Impurity: ≤ 0.10%	0.009%
	Total Impurities: ≤ 0.5%	0.019%
Heavy Metals	≤ 5ppm	Conforms
Sulphated Ash	≤ 0.1%	0.052%
Water (KF)	5.5 - 7.0 %	6.48%
Residual Solvents	Acetone: ≤ 5000ppm, Toluene: ≤ 890ppm	Conforms
Assay	99.0 - 101.0 % (anhydrous basis)	99.78%
Pharmacopoeia Specification(s)	EP	Conforms to EP

Specification Version	v1.0
Manufacture Date	2018-11-30
Re-Test Date	2026-11-07

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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