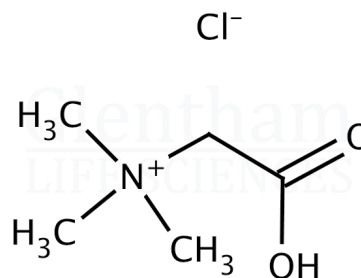


Certificate of Analysis

Product Name	Betaine hydrochloride
Glentham Code	GE3671
CAS Number	590-46-5
EINECS	209-683-1
MDL Number	MFCD00011903
PubChem SID	310267782
Batch Number	913WLV
Molecular Weight	153.61
Molecular Formula	$C_5H_{11}NO_2 \cdot HCl$
Storage Temp.	+20°C



Property	Specification	Batch 913WLV
Physical Description	White powder or crystals	White crystals
Assay	≥ 98.0% (dried basis)	99.3%
Loss on Drying	≤ 0.5%	0.21%
pH	0.8 - 1.2	1.1
Heavy Metals	≤ 10ppm	Conforms
Residue on Ignition	≤ 0.1%	0.05%
Lead (Pb)	≤ 3ppm	Conforms
Arsenic (As)	≤ 1ppm	Conforms
Mercury (Hg)	≤ 0.1ppm	Conforms
Cadmium (Cd)	≤ 1ppm	Conforms
Pharmacopoeia Specification(s)	USP	Conforms to USP35

Specification Version	v1.0
Manufacture Date	2014-01-18
Re-Test Date	2028-07-03

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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