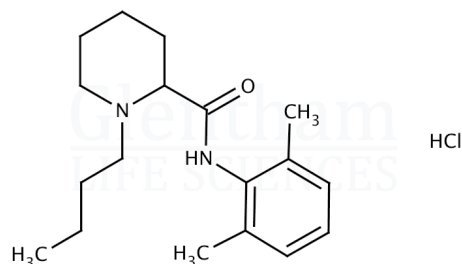


## Certificate of Analysis

Product Name	Bupivacaine hydrochloride
Glentham Code	GP3506
CAS Number	18010-40-7
Additional CAS	73360-54-0 (HCl.H <sub>2</sub> O)
Additional CAS	14252-80-3 (HCl)
Additional CAS	2180-92-9
Additional CAS	38396-39-3 (base)
PubChem SID	310269081
Batch Number	189OTZ



Molecular Weight	324.89
Molecular Formula	C <sub>18</sub> H <sub>29</sub> NCl <sub>2</sub> O
Storage Temp.	+4°C

Property	Specification	Batch 189OTZ
Physical Description	White or almost white crystalline powder	White crystalline powder
Solubility (5% in ethanol)	Clear, colourless solution	Clear, colourless solution
Specific Optical Rotation ([α] <sub>D</sub> <sup>20</sup> )	-10.0 - +10.0 ° (c=1, ethanol)	Conforms
Loss on Drying	≤ 3.0% (105°C)	0.13%
Assay (Titration)	≥ 98.0%	99.9%

Specification Version	v1.0
Manufacture Date	2020-07-06
Re-Test Date	2029-08-03

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](http://www.glentham.com) or contact us using the details above for the current version of this document.

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