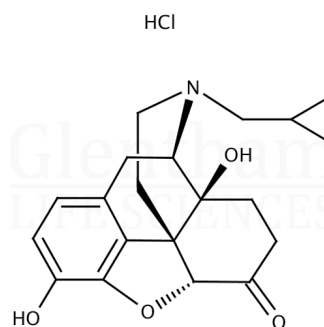


## Certificate of Analysis

Product Name	Naltrexone hydrochloride, Ph. Eur. grade
Glentham Code	GP1217
CAS Number	16676-29-2
EINECS	240-723-0
MDL Number	MFCD00069324
PubChem SID	310277441
Batch Number	742HUC
Molecular Weight	377.86
Molecular Formula	$C_{19}H_{21}NO_4 \cdot HCl \cdot xH_2O$
Storage Temp.	+4°C



Property	Specification	Batch 742HUC
Physical Description	White or almost white powder	Almost white powder
Identification	According to EP	Conforms
Solubility	2% in water: Clear, colourless solution	Conforms
Acidity and Alkalinity	According to EP	Conforms
Specific Optical Rotation	-187 - -195 °	-190.7°
Related Substances	According to EP	Any Individual Impurity: 0.05% (max); Total Impurities: 0.09%
Ethanol	≤ 3.0%	Conforms
Water	≤ 10.0%	7.5%
Sulphated Ash	≤ 0.1%	0.03%
Assay	98.0 - 102.0 %	100.5%
Pharmacopoeia Specification(s)	EP	Conforms

Specification Version	v1.0
Manufacture Date	2018-02-22
Re-Test Date	2027-03-20

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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