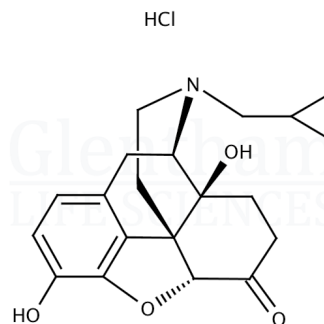


Certificate of Analysis

Product Name Naltrexone hydrochloride, Ph. Eur. grade
Glentham Code GP1217
CAS Number 16676-29-2
EINECS 240-723-0
MDL-Nummer 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	Entspricht
Solubility	2% in water: Clear, colourless solution	Entspricht
Acidity and Alkalinity	According to EP	Entspricht
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%	Entspricht
Water	≤ 10.0%	7.5%
Sulphated Ash	≤ 0.1%	0.03%
Assay	98.0 - 102.0 %	100.5%
Pharmacopoeia Specification(s)	EP	Entspricht

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 or contact us using the details above for the current version of this document.

This document was generated electronically and is therefore valid without signature. © Glentham Life Sciences Ltd, 2025