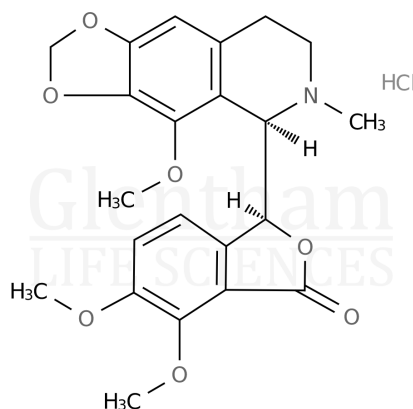


Certificate of Analysis

Product Name	Noscapine hydrochloride hydrate
Glentham Code	GY4385
CAS Number	912-60-7
EINECS	213-014-9
MDL Number	MFCD00149223
Batch Number	399HZL

Molecular Weight	449.88 (anhydrous)
Molecular Formula	$C_{22}H_{23}NO_7 \cdot HCl \cdot xH_2O$
Storage Temp.	+4°C



Property	Specification	Batch 399HZL
Physical Description	White to off-white powder or crystals	White crystalline powder
Specific Optical Rotation	+43.0 - +47.0 ° (c=0.5, 0.1M HCl)	+45.1°
Water	2.0 - 6.5 %	5.7%
Purity (HPLC)	≥ 98.0%	99.9%

Specification Version	v1.0
Manufacture Date	2021-04-12
Re-Test Date	2028-04-08

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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