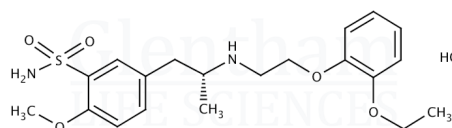


Certificate of Analysis

Product Name	Tamsulosin hydrochloride, EP grade
Glentham Code	GP8711
CAS Number	106463-17-6
MDL Number	MFCD00922997
Additional CAS	106133-20-4 (base)
Batch Number	577WTA
Molecular Weight	444.97
Molecular Formula	$C_{20}H_{28}N_2O_5 \cdot HCl$
Storage Temp.	+20°C



Property	Specification	Batch 577WTA
Physical Description	White or almost white powder	Conforms
Solubility	Slightly soluble in water, freely soluble in formic acid, slightly soluble in ethanol	Conforms
Identification	A, B, C, D according to EP	Conforms
Any Unspecified Impurity	≤ 0.10% (eluting before tamsulosin)	Conforms
Any Unspecified Impurity	≤ 0.10% (eluting after tamsulosin)	Conforms
Total Impurities	≤ 0.2% (before + after)	0.034%
Enantiomeric Purity	≤ 0.1% (Impurity G)	Not detected
Sulphated Ash	≤ 0.1%	0.059%
Loss on Drying	≤ 0.5% (105°C, 2h)	0.078%
Assay (Titration)	98.5 - 101.0 % (dried substance)	101.02%
Pharmacopoeia Specification(s)	EP	Conforms to EP

Specification Version	v1.0
Manufacture Date	2016-12-20
Re-Test Date	2022-02-14

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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