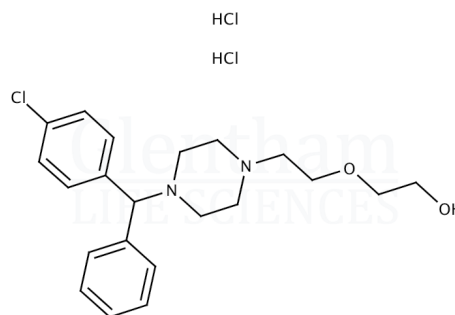


## Certificate of Analysis

Product Name Hydroxyzine dihydrochloride, USP grade  
Glentham Code GK7110  
CAS Number 2192-20-3  
EINECS 218-586-3  
MDL Number MFCD00058200  
Additional CAS 68-88-2 (free base)  
Batch Number 215KGI

Molecular Weight 447.83  
Molecular Formula  $C_{21}H_{27}ClN_2O_2 \cdot 2HCl$   
Storage Temp. +20°C



Property	Specification	Batch 215KGI
Physical Description	White or almost white powder	White powder
Identification (IR)	To conform to standard	Conforms
Identification (UV)	To pass test	Conforms
Identification	To pass test	Conforms
Residue on Ignition	≤ 0.5%	0.1%
Heavy Metals	≤ 20ppm	Conforms
Any Individual Impurity	≤ 0.3%	0.1%
Total Impurities	≤ 1.5%	0.2%
Loss on Drying	≤ 5.0%	0.5%
Assay (HPLC)	98.0 - 102.0 % (dried basis)	100.0%
Pharmacopoeia Specification(s)	USP	Conforms

Specification Version v1.0  
Manufacture Date 2018-12-05  
Re-Test Date 2028-10-31

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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