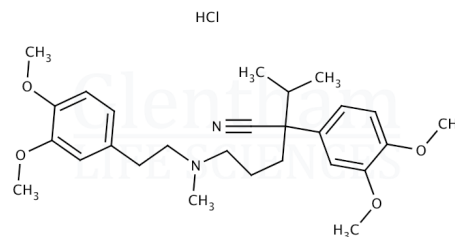


## Certificate of Analysis

Product Name Verapamil hydrochloride  
Glentham Code GP4575  
CAS Number 152-11-4  
EINECS 205-800-5  
MDL Number MFCD00055208  
PubChem SID 310281673  
Additional CAS 23313-68-0  
Additional CAS 52-53-9  
Batch Number 581JHT

Molecular Weight 491.07  
Molecular Formula  $C_{27}H_{38}N_2O_4 \cdot HCl$   
Storage Temp. +4°C



| Property                    | Specification                                | Batch 581JHT               |
|-----------------------------|----------------------------------------------|----------------------------|
| Physical Description        | White to almost white powder                 | White powder               |
| Solubility (5% in methanol) | Clear to faintly turbid, colourless solution | Clear, colourless solution |
| Melting Point               | 138 - 145 °C                                 | 140 - 142 °C               |
| Assay                       | ≥ 98.0%                                      | 99.5%                      |

Specification Version v1.0  
Manufacture Date 2019-10-01  
Re-Test Date 2029-09-30

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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