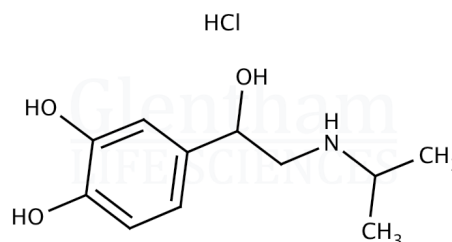


## Certificate of Analysis

Product Name Isoprenaline hydrochloride  
Glentham Code GP0338  
CAS Number 51-30-9  
EINECS 200-089-8  
MDL Number MFCD00012603  
PubChem SID 310275429  
Batch Number 561AOI

Molecular Weight 247.72  
Molecular Formula  $C_{11}H_{17}NO_3 \cdot HCl$   
Storage Temp. +20°C



| Property                       | Specification                                                | Batch 561AOI             |
|--------------------------------|--------------------------------------------------------------|--------------------------|
| Physical Description           | White or almost white crystalline powder                     | White crystalline powder |
| Identification                 | A, B according to USP                                        | Conforms                 |
| Melting Point                  | 165 - 170 °C                                                 | Conforms                 |
| Solubility (5% in water)       | Clear to slightly turbid, colourless to pale yellow solution | Conforms                 |
| Residue on Ignition            | ≤ 0.2%                                                       | 0.02%                    |
| Sulphates                      | ≤ 0.2%                                                       | Conforms                 |
| Chloride                       | 13.9 - 14.6 %                                                | 14.5%                    |
| Isoproterenone                 | ≤ 0.2 (absorbance at 310nm)                                  | 0.02                     |
| Methanol                       | ≤ 3000ppm                                                    | 110ppm                   |
| Isopropanol                    | ≤ 5000ppm                                                    | 80ppm                    |
| Loss on Drying                 | ≤ 1.0%                                                       | 0.04%                    |
| Assay                          | 99.5 - 100.5 % (dried basis)                                 | 100.1%                   |
| Pharmacopoeia Specification(s) | USP                                                          | Conforms to USP35        |

Specification Version v1.1  
Manufacture Date 2015-03-10  
Re-Test Date 2026-03-10

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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