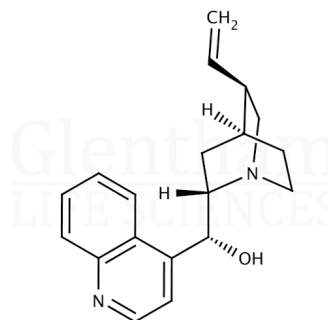


Certificate of Analysis

Product Name Cinchonidine
Glentham Code GP1244
CAS Number 485-71-2
EINECS 207-622-3
MDL Number MFCD00006783
PubChem SID 310270265
Batch Number 252NFW

Molecular Weight 294.39
Molecular Formula $C_{19}H_{22}N_2O$
Storage Temp. +20°C



| Property | Specification | Batch 252NFW |
|---------------------------|--|--------------|
| Physical Description | White to almost white crystalline powder | Conforms |
| Identification | To pass test | Conforms |
| pH (1% solution) | 7.0 - 9.0 | 8.8 |
| Loss on Drying | ≤ 1.0% | 0.1% |
| Specific Optical Rotation | -162 - -189 ° | -179° |
| Other Cinchona Alkaloids | ≤ 5.0% (inc. Quinine and Hydroquinone) | 0.5% |
| Sulphated Ash | ≤ 0.1% | Conforms |
| Heavy Metals | ≤ 10ppm | Conforms |
| Chloride | ≤ 200ppm | Conforms |
| Sulphate | ≤ 500ppm | Conforms |
| Melting Point | 200 - 207 °C | 205°C |
| Assay | 99.0 - 101.0 % | 99.6% |

Specification Version v1.0
Manufacture Date 2014-11-04
Re-Test Date 2029-02-13

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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