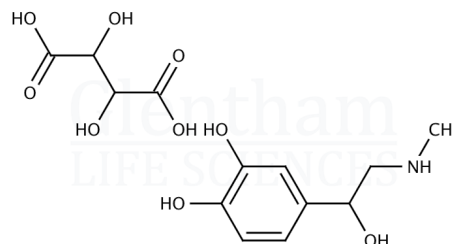


Certificate of Analysis

Product Name (+)-Epinephrine (+)-bitartrate salt
Glentham Code GP8869
CAS Number 51-42-3
EINECS 200-097-1
MDL Number MFCD00035077
PubChem SID 310272600
Batch Number 087ORP

Molecular Weight 333.29
Molecular Formula $C_9H_{13}NO_3 \cdot C_4H_6O_6$
Storage Temp. +4°C



Property	Specification	Batch 087ORP
Physical Description	White to off-white powder	Off-white powder
Identification (IR)	To conform to standard	Conforms
Solubility (5% in water)	Clear, colourless to faint yellow solution	Clear, colourless solution
Melting Point	147.0 - 152.0 °C	151.0°C
Specific Optical Rotation	-15.0 - -18.0 ° (c=2, water)	-16.0°
Loss on Drying	≤ 1.0%	0.12%
Assay	≥ 98.0% (dried basis)	99.4%

Specification Version v1.1
Manufacture Date 2023-01-20
Re-Test Date 2030-02-07

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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