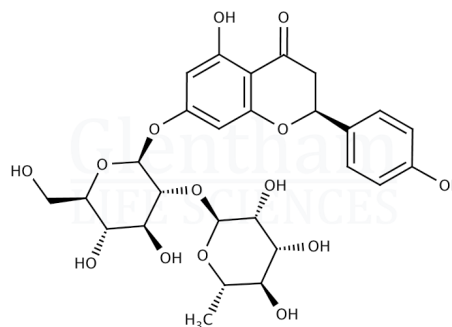


Certificate of Analysis

Product Name Naringin hydrate
Glentham Code GC2272
CAS Number 10236-47-2
EINECS 233-566-4
MDL Number MFCD00148888
PubChem SID 310277561
Batch Number 087HMO

Molecular Weight 580.53 (anhydrous)
Molecular Formula $C_{27}H_{32}O_{14} \cdot xH_2O$
Storage Temp. +20°C



Property	Specification	Batch 087HMO
Physical Description	White to light-yellow or faint beige powder	Faint beige powder
Solubility (1% in ethanol)	Clear to faintly turbid, colourless to light yellow or green solution (may require heating)	Clear, colourless solution
Specific Optical Rotation ($[\alpha]_{20/D}$)	-70.0 - -90.0 ° (c=1, ethanol)	- 82.5 °
Loss on Drying	≤ 9.0% (105°C)	3.91 %
Assay	≥ 95.0%	98.03%

Specification Version v1.1
Manufacture Date 2018-08-29
Re-Test Date 2029-03-19

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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