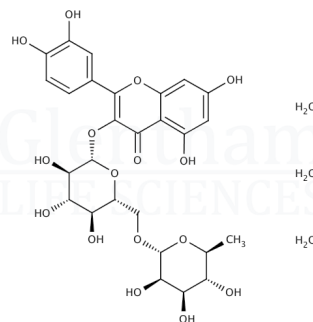


Certificate of Analysis

Product Name Rutin hydrate
Glentham Code GC4239
CAS Number 207671-50-9
EINECS 205-814-1
MDL Number MFCD00149490
MDL Number MFCD00006830
Additional CAS 153-18-4 (anhydrous)
Additional CAS 250249-75-3 ($\cdot 3\text{H}_2\text{O}$)
PubChem SID 310279821
Batch Number 380CHY

Molecular Weight 610.52 (anhydrous)
Molecular Formula $\text{C}_{27}\text{H}_{30}\text{O}_{16} \cdot x\text{H}_2\text{O}$
Storage Temp. +20°C



| Property | Specification | Batch 380CHY |
|-----------------------------|--|---------------------------------|
| Physical Description | Light-yellow to yellow-green crystalline powder | Yellow-green crystalline powder |
| Identification (IR) | To conform to standard | Conforms |
| Solubility (5% in pyridine) | Clear to slightly turbid, faint yellow to dark yellow, green or brown solution | Clear, dark yellow solution |
| Heavy Metals | $\leq 10\text{ppm}$ | $\leq 10\text{ppm}$ |
| Arsenic (As) | $\leq 1\text{ppm}$ | $\leq 1\text{ppm}$ |
| Cadmium (Cd) | $\leq 1\text{ppm}$ | $\leq 1\text{ppm}$ |
| Lead (Pb) | $\leq 3\text{ppm}$ | $\leq 3\text{ppm}$ |
| Mercury (Hg) | $\leq 0.1\text{ppm}$ | $\leq 0.1\text{ppm}$ |
| Sulphated Ash | $\leq 0.5\%$ | 0.21% |
| Loss on Drying | $\leq 9.0\%$ | 5.2% |
| Assay | $\geq 95.0\%$ (dried basis) | 95.5% |

Specification Version v1.1
Manufacture Date 2021-09-15
Re-Test Date 2029-05-24

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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