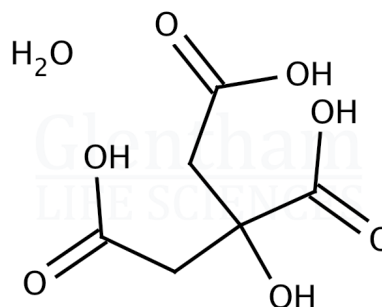


## Certificate of Analysis

Product Name Citric acid monohydrate  
Glentham Code GK0024  
CAS Number 5949-29-1  
EINECS 201-069-1  
MDL-Nummer MFCD00149972  
PubChem SID 310270363  
Batch Number 459PUC

Molecular Weight 210.14  
Molecular Formula  $C_6H_8O_7 \cdot H_2O$   
Storage Temp. +20°C



| Property                        | Specification                                   | Batch 459PUC |
|---------------------------------|-------------------------------------------------|--------------|
| Physical Description            | Colourless crystals to white crystalline powder | Entspricht   |
| Identification                  | According to EP, USP                            | Entspricht   |
| Appearance of Solution          | According to EP, USP                            | Entspricht   |
| Water                           | 7.5 - 8.8 %                                     | 8.7%         |
| Readily Carbonisable Substances | According to EP, USP                            | Entspricht   |
| Sulphated Ash                   | ≤ 0.05%                                         | 0.02%        |
| Sulphate                        | ≤ 150ppm                                        | Entspricht   |
| Oxalate                         | ≤ 100ppm                                        | Entspricht   |
| Heavy Metals                    | ≤ 10ppm                                         | Entspricht   |
| Aluminium                       | ≤ 0.2ppm                                        | Entspricht   |
| Assay                           | 99.5 - 100.5 % (anhydrous basis)                | 100.0%       |
| Pharmacopoeia Specification(s)  | EP, USP                                         | Entspricht   |

Specification Version v1.1  
Manufacture Date 2018-11-01  
Re-Test Date 2030-04-08

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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