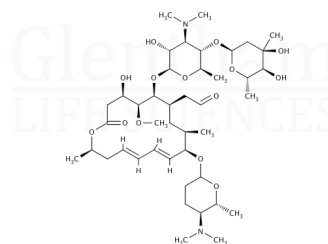
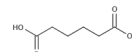


## Certificate of Analysis

Product Name Spiramycin adipate  
Glentham Code GP9788  
CAS Number 68880-55-7  
EINECS 272-570-0  
MDL Number MFCD01776507  
Additional CAS 8025-81-8  
Batch Number 752PRV

Molecular Weight 989.19  
Molecular Formula  $C_{49}H_{84}N_2O_{18}$   
Storage Temp. +4°C



| Property                  | Specification                                         | Batch 752PRV |
|---------------------------|-------------------------------------------------------|--------------|
| Physical Description      | White to off-white or light-yellow crystalline powder | Conforms     |
| Assay                     | ≥ 3400IU/mg (anhydrous basis)                         | 3618 IU/mg   |
| Specific Optical Rotation | -68 - -73 °                                           | -70°         |
| Content (dried basis)     | Spiramycin: 80.0 - 88.0 %                             | 84.2%        |
|                           | Adipic acid: 13.0 - 15.0 %                            | 14.0%        |
| Loss on Drying            | ≤ 3.0%                                                | 1.4%         |
| Sulphated Ash             | ≤ 0.1%                                                | Conforms     |
| Heavy Metals              | ≤ 20ppm                                               | Conforms     |

Specification Version v1.0  
Manufacture Date 2018-06-01  
Re-Test Date 2027-10-15

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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