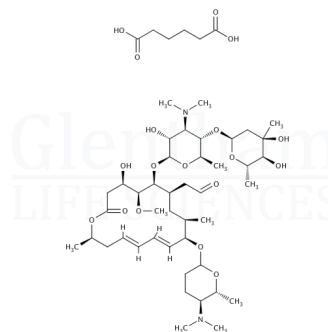


## Certificate of Analysis

|                   |                         |
|-------------------|-------------------------|
| 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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