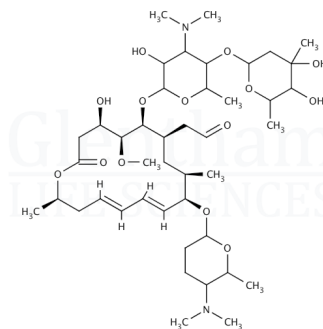


## Certificate of Analysis

|                   |                         |
|-------------------|-------------------------|
| Product Name      | Spiramycin, EP grade    |
| Glentham Code     | GA9612                  |
| CAS Number        | 8025-81-8               |
| EINECS            | 232-429-6               |
| MDL Number        | MFCD01314545            |
| Batch Number      | 095RGN                  |
| Molecular Weight  | 843.05                  |
| Molecular Formula | $C_{43}H_{74}N_2O_{14}$ |
| Storage Temp.     | +4°C                    |



| Property                       | Specification   | Batch 095RGN               |
|--------------------------------|---|----------------------------|
| Physical Description           | White to pale yellow powder   | Pale yellow powder         |
| Identification                 | According to EP   | Conforms                   |
| Solubility (10% in ethanol)    | Clear, colourless to pale yellow solution                             | Clear, colourless solution |
| pH                             | 8.5 - 10.5 (500mg in 5ml CH <sub>3</sub> OH + 100ml H <sub>2</sub> O) | 9.5                        |
| Specific Optical Rotation      | -80 - -85 °   | -82 °                      |
| Any Individual Impurity        | ≤ 2.0%  | 1.3%                       |
| Total Impurities               | ≤ 10.0%   | 3.9%                       |
| Heavy Metals                   | ≤ 20ppm   | Conforms                   |
| Sulphated Ash                  | ≤ 0.1%  | Conforms                   |
| Composition                    | Spiramycin I: ≥ 80.0%   | 96.0%                      |
|                                | Spiramycin II: ≤ 5.0%   | 0.2%                       |
|                                | Spiramycin III: ≤ 10.0%   | 2.4%                       |
|                                | Total Spiramycins: ≥ 90.0%  | 98.6%                      |
| Loss on Drying                 | ≤ 3.5%  | 0.8%                       |
| Assay                          | ≥ 4100IU/mg (dried basis)   | 4434 IU/mg                 |
| Pharmacopoeia Specification(s) | EP  | Conforms                   |

|                       |            |
|-----------------------|------------|
| Specification Version | v1.0       |
| Manufacture Date      | 2021-08-23 |
| Re-Test Date          | 2029-09-27 |

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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