

# Certificate of Analysis

## Reference Material

|                            |                   |                          |                                           |
|----------------------------|-------------------|--------------------------|-------------------------------------------|
| <b>Product Name:</b>       | Quinolones Mix 14 | <b>Catalogue Number:</b> | MCAD302110-ME                             |
| <b>Appearance:</b>         | Colourless Liquid | <b>Lot Number:</b>       | 1118-RD-0042                              |
| <b>Solvent:</b>            | Methanol          | <b>Storage:</b>          | -20°C±5°C Protected from light and Sealed |
| <b>Expiry Date:</b>        | Jun 10, 2023      |                          |                                           |
| <b>Chemical Structure:</b> | N/A               | <b>Warning:</b>          |                                           |

| NO. | Component      | CAS No.     | Certified Concentration Value (µg/mL) | Uncertainty (%) |
|-----|----------------|-------------|---------------------------------------|-----------------|
| 1   | Cinoxacin      | 28657-80-9  | 100.1                                 | 3               |
| 2   | Norfloxacin    | 70458-96-7  | 101.6                                 | 3               |
| 3   | Lomefloxacin   | 98079-51-7  | 99.4                                  | 3               |
| 4   | Enoxacin       | 74011-58-8  | 99.6                                  | 3               |
| 5   | Enrofloxacin   | 93106-60-6  | 100.3                                 | 3               |
| 6   | Pefloxacinium  | 70458-92-3  | 102.0                                 | 3               |
| 7   | Flumequine     | 42835-25-6  | 100.2                                 | 3               |
| 8   | Danofloxacin   | 112398-08-0 | 100.1                                 | 3               |
| 9   | Ofloxacin      | 82419-36-1  | 100.9                                 | 3               |
| 10  | Ciprofloxacin  | 85721-33-1  | 99.8                                  | 3               |
| 11  | Sarafloxacin   | 98105-99-8  | 100.1                                 | 3               |
| 12  | Pipemidic Acid | 51940-44-4  | 101.4                                 | 3               |
| 13  | Nalidixic Acid | 389-08-2    | 98.6                                  | 3               |
| 14  | Oxolinic Acid  | 14698-29-4  | 99.3                                  | 3               |

## Comment:

The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

## Signature:

Prepared by:

Xenia

Reviewed by:

Hinlam

Aporoved by General manager:

David

Date: Jun 11, 2021

Date: Nov 23, 2022

Date: Nov 23, 2022

