# CERTIFICATE OF ANALYSIS

## CHLORAMPHENICOL, *POWDER*

**Catalogue No:** 400-120-**

**Lot No:** 400120025

**Exp:** 11/2024

**MSDS:** Available upon request

**Shipping:** Ambient

**Storage:** Store at room temperature. Protect from light and excessive heat. Protect from moisture

| TEST | SPECIFICATION | UNITS | RESULTS |
|---|---|---|---|
| Appearance | White to yellowish green needle like, long flake like or crystalline powder | | Pass |
| Identification | Positive | | Positive |
| Melting point | 149-153 | ºC | 151 - 152 |
| Assay | 98.5-102 | % | 99.9 |
| Loss on Drying | ≤ 0.5 | % | 0.03 |
| Residue on Ignition | ≤ 0.1 | % | 0.04 |
| Acidity or Alkalinity (PH) | 4.5-7.5 | | 6.2 |
| Specific Rotation | +18.5-+21.5 | º | +19.8 |
| Heavy Metals | ≤ 0.001 | % | < 0.001 |
| Related Substances | Chloramphenicol glycol compound ≤1.0% p-nitrobenzaldehyde ≤0.5% | | 0.1%, ND |
| Crystallinity | Meet the requirements | | Meet the requirements |

Preparation: To prepare a stock solution from powder, add the appropriate amount of powder to sterile water while mixing (not the reverse), as adding water to the powders may result in insoluble mixtures, which upon filtering loamy lose potency. After insuring that the resultant solution is transparent, sterile filter. Store small aliquots at appropriate temperature until use. Prior to use the media, add the appropriate amount of antibiotic to sterile media in order to obtain the required working concentration. Mix well and sterile filter (optional, reduces chances of contamination). Working concentration: Selection of the proper working concentration is a balance between strong antibiotic effects and the concern for negative effects to the cells of importance. The working concentration should be varied above or below the suggested value to optimize conditions for the cells.