

Certificate of Analysis

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|--------------------------|-------------------------------|
| Date of Testing: | 2023-07-28 14:39:43 |
| Date of Next Testing: | 2027-07-27 14:39:43 |
| Product Name: | Thymidine |
| CAS Number: | 50-89-5 |
| Specifications & Purity: | Moligand™, ≥99% |
| Lot #: | G2326973 |
| SKU # | T104771 |
| Version | 0 |
| Analysis #: | 246621 |
| Storage Temperature: | Store at 2-8°C, Argon charged |

| Parameter | Limit Values | Result |
|--|---|---|
| Spectrophotometry (UV) | 98-102 (%) | 99.60 % |
| Purity(HPLC) | 99-100 (%) | 99.94400 % |
| Thymidine | 0-0.2 (%) | 0.10 % |
| A280/A260 | 0.7-0.74 | 0.72 |
| Water by Karl Fischer | 0-0.5 (%) | 0.15 % |
| Sulfate Ash | 0-0.1 (%) | 0.05 % |
| Heavy metal (as Pb) | 0-10 (ppm) | 0.33 ppm |
| Total impurities | 0-0.5 (%) | 0.21 % |
| A250/A260 | 0.63-0.67 | 0.65 |
| Specific Rotation [α] ₂₀ /D(c=3 in W/V in 17.5-19.1 (°) H ₂ O) | | 17.52 ° |
| Melting point | 185-190 (°C) | 189.86000 °C |
| Appearance (T104771) | White to Off-White Solid, Powder, or Crystals | White to Off-White Solid, Powder, or Crystals |
| Infrared spectrum | Conforms to Structure | Conforms to Structure |



ALADDIN SCIENTIFIC CORPORATION

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A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager