

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-04-17 14:38:29  
 Date of Next Testing: 2029-04-16 14:38:29  
 Product Name: **Thymidine**  
 CAS Number: 50-89-5  
 Specifications & Purity: Moligand™, ≥99%  
 Lot #: D2515004  
 SKU #: **T104771**  
 Version: **1**  
 Analysis #: **246621**  
 Storage Temperature: Store at 2-8°C, Argon charged

| Parameter                                                                            | Limit Values                                  | Result                                        |
|--------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| Spectrophotometry (UV)                                                               | 98-102 (%)                                    | 99.60000 %                                    |
| Purity(HPLC)                                                                         | 99-100 (%)                                    | 99.94400 %                                    |
| Thymidine                                                                            | 0-0.2 (%)                                     | 0.10000 %                                     |
| A280/A260                                                                            | 0.7-0.74                                      | 0.72000                                       |
| Water by Karl Fischer                                                                | 0-0.5 (%)                                     | 0.15080 %                                     |
| Sulfate Ash                                                                          | 0-0.1 (%)                                     | 0.05000 %                                     |
| Heavy metal (as Pb)                                                                  | 0-10 (ppm)                                    | 0.33000 ppm                                   |
| Total impurities                                                                     | 0-0.5 (%)                                     | 0.21000 %                                     |
| A250/A260                                                                            | 0.63-0.67                                     | 0.65100                                       |
| Specific Rotation [α] <sub>20</sub> /D(c=3 in W/V in 17.5-19.1 (°) H <sub>2</sub> O) |                                               | 17.52000 °                                    |
| 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                         |



QualityAssurance@aladdinsci.com

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

John Su  
QA & QC Manager