

## Certificate of Analysis

Date of Testing: 2022-12-14 11:00:14  
 Date of Next Testing: 2026-12-13 11:00:14  
 Product Name: **Thymidine**  
 CAS Number: 50-89-5  
 Specifications & Purity: 99%  
 Lot #: L2208969  
 SKU #: **T104771**  
**Analysis:** **157512**  
 Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Spectrophotometry (UV)	98-102 (%)	99.69%
Specific Rotation $[\alpha]_{20/D}(c=3 \text{ in W/V in } 17.5-19.1 \text{ (}^\circ\text{) H}_2\text{O})$		17.89°
Purity(HPLC)	99-100 (%)	99.87500%
Thymidine	0-0.2 (%)	0.14%
A280/A260	0.7-0.74	0.72
Water by Karl Fischer	0-0.5 (%)	0.07%
Sulfate Ash	0-0.1 (%)	0.03%
Heavy metal (as Pb)	0-10 (ppm)	3.25 ppm
Total impurities	0-0.5 (%)	0.28%
A250/A260	0.63-0.67	0.65
Melting point	185-190 (°C)	189.68000 °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