

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing:	2023-07-28 14:44:15
Date of Next Testing:	2027-07-27 14:44:15
Product Name:	<b>Thymidine</b>
CAS Number:	50-89-5
Specifications & Purity:	Moligand™, ≥99%
Lot #:	G2326592
SKU #	<b>T104771</b>
Version	<b>0</b>
<b>Analysis #:</b>	<b>246621</b>
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] <sub>20</sub> /D(c=3 in W/V in 17.5-19.1 (°) H <sub>2</sub> 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



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A handwritten signature in black ink that reads "John Su". The signature is written in a cursive, flowing style.

John Su  
QA & QC Manager