

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Thymidine,99%

ITEM NUMBER: T104771
BRAND: Aladdin
CAS NUMBER: 50-89-5
MDL NUMBER: MFCD00006537
FORMULA: C10H14N2O5
MOLECULAR WEIGHT: 242.23

TEST	SPECIFICATION		TARGET VALUE
	MIN.	MAX.	
(abs. max. 267nm, $\epsilon=9,600 \pm 4\%$, PH7)	-	-	-
A250/A260	0.63	0.67	0.67
A280/A260	0.7	0.74	0.74
Appearance	White to Off-White Solid, Powder, or Crystals		
Heavy metals (as Pb)	0 ppm	10 ppm	10 ppm
Infrared spectrum	Conforms to Structure		
Melting point	185 ° C	190 ° C	190 ° C
Purity(HPLC)	99 %	100 %	100 %
Specific rotation $[\alpha]_{20/D}(c=3, W/V \text{ in } H_2O)$	+17.5 °	19+1 °	+19.1 °
Spectrophotometry (UV)	98 %	102 %	102 %
Sulfated ash	0 %	0.1 %	0.1 %
Thymidine	0 %	0.2 %	0.2 %
Total impurity	0 %	0.5 %	0.5 %
Water by Karl Fischer	0 %	0.5 %	0.5 %