



Specification

Thymidine

CAS Number: 50-89-5
Molecular Formula: C₁₀H₁₄N₂O₅
Molecular Weight: 242.23
Storage: 15°C - 30°C

Test	Specification
Appearance:	White Crystalline Powder
Assay (Dry Basis):	≥ 98.5 %
Heavy Metals (as Pb):	≤ 10 ppm
Loss on Drying (110 oC):	≤ 0.50 %
Melting Point:	184.0 - 189.0 oC
Solubility (2% Solution in H ₂ O @25 oC):	Clear and Complete
Specific Rotation:	+17.76 - +19.25 °
Spectral Constant (A ₂₅₀ /A ₂₆₀ pH 1.0):	0.62 - 0.68
Spectral Constant (A ₂₈₀ /A ₂₆₀ pH 1.0):	0.66 - 0.72
Spectral Constant (Epsilon Max pH 1.0):	9.25 - 10.05 10 ³
Spectral Constant (Lambda max pH, 1.0):	265 - 269 nm

Approved:

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