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Certificate of Analysis

Product Description : Thymidine, cell culture reagent
Catalog Number : 194754
Lot: S6256**Formula:** $C_{10}H_{14}N_2O_5$ **CAS #:** 50-89-5**Physical Description :** White Powde**Formula Weight:** 242.23**Storage:** 15 - 30°C

Test	Specification	Result
Identity Test	Passes	Passes
Purity	≥99%	99.9% (HPLC)
FTIR	Conforms to Standard	Conforms to Standard
Melting Point	185 - 191°C	188.0 - 189.0°C
UV/Vis: λ max (0.1N HCl)	266 - 268 nm	267 nm
OD250/OD260	0.59 - 0.67	0.62
OD280/OD260	0.67 - 0.74	0.71
OD290/OD260	0.19 - 0.25	0.22
Optical Rotation (c=1, water)	Report Result	+18.75°

Assay (UV abs, dry basis): 99.3%

Loss on Drying: 0.07%

Residue on Ignition: 0.07%

Heavy Metals: <10 ppm

Recommended Retest Date (MM/DD/YYYY): 04/09/2024

A handwritten signature in black ink, appearing to read 'J Huang'.

06/01/2021 - John Huang, PhD
MP Biomedicals, LLC.
Quality Control ManagerThis is an electronically generated document
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<http://www.mpbio.com>

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Technical Service: 1-800-279-5490 (440-337-1200) Customer Service: 1-800-854-0530 (440-337-1200)