

Certificate of Analysis

Product Name: 4-Nitrophenyl thymidine-5'-monophosphate, ammonium salt
Cat #: N-400
CAS #: 83918-61-0
Lot #: Lot Specific
Retest Date: Lot Specific
Storage:[†] Store at -20°C. Protect from light.

Test	Specs	Results
Color	off-white to light yellow	off-white
Form	powder	powder
Color of Solution (1% in water)	colorless to light yellow	slightly yellow
Turbidity (1% in water)	max. 4.0 NTU	0.5 NTU
Water Content (K. Fischer)	max. 5.0%	1.9%
Purity (HPLC)	min. 95.0 area-%	97.7 area-%
TLC (30 mg/mL in solvent system; ethyl acetate/pyridine/water/acetic acid 30:15:10:5; UV 254 nm)	corresponds to reference material	corresponds
Impurity (p-nitrophenol; comparison with standard solutions)	max. 0.5%	<0.5%
UV Wavelength (0.02 mg/mL in 0.1 mol/L HCl; lambda max.)	270 to 272 nm	271 nm
Molar Extinction Coefficient (0.02 mg/mL in 0.1 mol/L HCl; at lambda max.)	min. 13000.0 L/(mol cm)	14841.5 L/(mol cm)
FT-IR Spectrum	corresponds to reference spectrum	corresponds

* Gold Biotechnology, Inc. provides this Certificate of Analysis in good faith and to the best of its knowledge. It should not be substituted for the user's own raw material quality control. This material is for laboratory use only.

† Storage at listed temperature applies to retest date (if shown) or two years from purchase date. Check label for long term storage conditions, which may extend the product beyond the retest date and/or greater than two years from purchase.

Gold Biotechnology, Inc.
 1328 Ashby Rd.
 St. Louis, MO 63132
 P: (314)890-8778
 F: (314)890-0503
 E: contactgoldbio86@goldbio.com