

New England Biolabs Certificate of Analysis

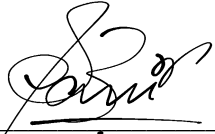
Product Name: 3'-Biotin-GTP
Catalog Number: N0760S
Concentration: 5 mM
Packaging Lot Number: 10130286
Expiration Date: 12/2024
Storage Temperature: -20°C
Specification Version: PS-N0760S v1.0
Composition (1X): Supplied in Ultrapure water as a Triethylammonium salt (pH 7.0).

3'-Biotin-GTP Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N0760SVIAL	3'-Biotin-GTP	10130285	Pass

Assay Name/Specification	Lot # 10130286
Physical Purity (HPLC) 3'-Biotin-GTP is ≥ 95% pure as determined by HPLC analysis.	Pass
RNase Activity (Extended Digestion) A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 5 nmoles of 3'-Biotin-GTP is incubated at 37°C. After incubation for 16 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.	Pass
Functional Testing (Capping, 3'-Biotin-GTP) A 20 µl reaction in Capping Buffer containing 0.5 mM 3'-Biotin-GTP, 0.1 mM SAM, 62.5 ng of a 25 mer RNA transcript, 20 units of Vaccinia Capping Enzyme and 0.05 units of Yeast Inorganic Pyrophosphatase incubated for 30 minutes at 37°C results in >90% capped transcript as determined by gel electrophoresis.	Pass
Endonuclease Activity (Nicking) A 50 µl reaction in NEBuffer 4 containing 1 µg of supercoiled PhiX174 DNA and a minimum of 5 nmoles of 3'-Biotin-GTP incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Concentration (A260) The concentration of 3'-Biotin-GTP is between 5 and 5.5 mM as determined by UV absorption at 260 nm.	Pass

This product has been tested and shown to be in compliance with all specifications.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.



Bhairavi Jani
Production Scientist
21 Dec 2021



Michael Tonello
Packaging Quality Control Inspector
21 Dec 2021