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New England Biolabs Certificate of Analysis

Product Name: 3'-Desthiobiotin-GTP

Catalog Number: N0761S
Concentration: 5 mM
Packaging Lot Number: 10133504
Expiration Date: 12/2024
Storage Temperature: -20°C

Specification Version: PS-N0761S v1.0

Composition (1X): Supplied in Ultrapure water as a Triethylammonium salt (pH 7.0).

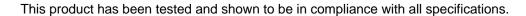
3'-Desthiobiotin-GTP Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
N0761SVIAL	3'-Desthiobiotin-GTP	10133503	Pass	

Assay Name/Specification	Lot # 10133504
Concentration (A260) The concentration of 3'-Desthiobiotin-GTP is between 5 and 5.5 mM as determined by UV absorption at 260 nm.	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'-Desthiobiotin-GTP incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Functional Testing (Capping, 3'DTB-GTP) A 20 µl reaction in Capping Buffer containing 0.5 mM 3'-Desthiobiotin-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
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'-Desthiobiotin-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
Physical Purity (HPLC) 3'-Desthiobiotin-GTP is ≥ 95% pure as determined by HPLC analysis.	Pass



N0761S / Lot: 10133504

Page 1 of 2



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Bhairavi Jani

Production Scientist

10 Mar 2022

Michael Tonello

Packaging Quality Control Inspector

10 Mar 2022