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New England Biolabs Certificate of Analysis

Product Name: M13mp18 Single-stranded DNA

Catalog Number:N4040SConcentration:250 μg/ml

Unit Definition: N/A

Packaging Lot Number: 10222375
Expiration Date: 09/2025
Storage Temperature: -20°C

Storage Conditions: 10 mM Tris-HCl (pH 8.0), 1 mM EDTA

Specification Version: PS-N4040S v2.0

M13mp18 Single-stranded DNA Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
N4040SVIAL	M13mp18 Single-stranded DNA	10207570	Pass	

Assay Name/Specification	Lot # 10222375
A260/A280 Assay The ratio of UV absorption of M13mp18 Single-stranded DNA at 260 and 280 nm is between 1.8 and 2.0.	Pass
DNA Concentration (A260) The concentration of M13mp18 Single-stranded DNA is between 250 and 260 μg/ml as determined by UV absorption at 260 nm.	Pass
Electrophoretic Pattern (Plasmid) The banding pattern of M13mp18 Single-stranded DNA on a 1.2% agarose gel is evaluated against a control lot for sharpness and relative intensity as determined by gel electrophoresis using Ethidium Bromide.	Pass
Mung Bean Nuclease Digest (Sensitive) A 100 μl reaction in Mung Bean Nuclease Reaction Buffer containing 2.5 μg of M13mp18 Single-stranded DNA and 10 units of Mung Bean Nuclease incubated for 1 hour at 30°C results in complete digestion of the DNA as determined by agarose gel electrophoresis.	Pass
Non-Specific DNase Activity (DNA, 16 hour) A 50 μl reaction in 1X NEBuffer 2 containing 2.5 μg of M13mp18 Single-stranded DNA incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease	Pass



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Assay Name/Specification	Lot # 10222375
degradation as determined by agarose gel electrophoresis.	
Restriction Digest (Single Stranded, Resistant) A 50 µl reaction in CutSmart™ Buffer containing 2.5 µg of M13mp18 Single-stranded DNA and a minimum of 20 units of XhoI incubated for 1 hour at 37°C results in no detectable digestion of the DNA as determined by agarose gel electrophoresis.	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.

Vanessa Mathieu-Sheltry Production Scientist

28 Sep 2023

Michael Tonello

Packaging Quality Control Inspector

08 Jan 2024

