

New England Biolabs Certificate of Analysis

Product Name: M13mp18 RF I DNA
Catalog Number: N4018S
Concentration: 100 µg/ml
Unit Definition: N/A
Lot Number: 10033484
Expiration Date: 01/2021
Storage Temperature: -20°C
Storage Conditions: 10 mM Tris-HCl (pH 8.0), 1 mM EDTA
Specification Version: PS-N4018S v1.0

M13mp18 RF I DNA Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N4018SVIAL	M13mp18 RF I DNA	10033485	Pass

Assay Name/Specification	Lot # 10033484
A260/A280 Assay The ratio of UV absorption of M13mp18 RF I DNA at 260 and 280 nm is between 1.8 and 2.0.	Pass
DNA Concentration (A260) The concentration of M13mp18 RF I DNA is between 100 and 110 µg/ml as determined by UV absorption at 260 nm.	Pass
Electrophoretic Pattern (Plasmid) The banding pattern of M13mp18 RF I 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
Non-Specific DNase Activity (DNA, 16 hour) A 50 µl reaction in 1X NEBuffer 2 containing 2.5 µg of M13mp18 RF I DNA incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Restriction Digest (Linearization) A 50 µl reaction in CutSmart™ Buffer containing 5 µg of M13mp18 RF I DNA and 20 units of XbaI incubated for 1 hour at 37°C produces > 95% linearization resulting in a single band of approximately 7249 bp as determined by agarose gel electrophoresis.	Pass

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



Vanessa Mathieu-Sheltry
Production Scientist
11 Jan 2019



Michael Tonello
Packaging Quality Control Inspector
15 Jan 2019