

## New England Biolabs Certificate of Analysis

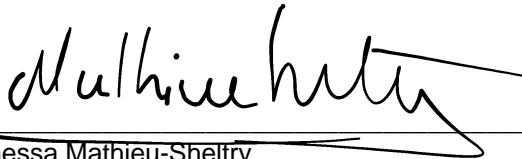
**Product Name:** M13mp18 RF I DNA  
**Catalog Number:** N4018S  
**Concentration:** 100 µg/ml  
**Unit Definition:** N/A  
**Packaging Lot Number:** 10202511  
**Expiration Date:** 06/2025  
**Storage Temperature:** -20°C  
**Storage Conditions:** 10 mM Tris-HCl (pH 8.0), 1 mM EDTA  
**Specification 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	10195935	Pass

Assay Name/Specification	Lot # 10202511
<b>A260/A280 Assay</b> The ratio of UV absorption of M13mp18 RF I DNA at 260 and 280 nm is between 1.8 and 2.0.	<b>Pass</b>
<b>DNA Concentration (A260)</b> The concentration of M13mp18 RF I DNA is between 100 and 110 µg/ml as determined by UV absorption at 260 nm.	<b>Pass</b>
<b>Electrophoretic Pattern (Plasmid)</b> 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.	<b>Pass</b>
<b>Non-Specific DNase Activity (DNA, 16 hour)</b> 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.	<b>Pass</b>
<b>Restriction Digest (Linearization)</b> 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.	<b>Pass</b>

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

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13 Jun 2023



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08 Aug 2023