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## New England Biolabs Certificate of Analysis

Product Name:	M13mp18 RF I DNA
Catalog #:	N4018S
Concentration:	100 µg/ml
Unit Definition:	N/A
<i>Lot</i> #:	0421709
Assay Date:	09/2017
Expiration Date:	9/2019
Storage Temp:	-20°C
Storage Conditions:	10 mM Tris-HCl (pH 8.0), 1 mM EDTA
Specification Version:	PS-N4018S v1.0
Effective Date:	08 Jul 2014

Assay Name/Specification (minimum release criteria)	Lot #0421709
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
<b>DNA Concentration (A260)</b> - The concentration of M13mp18 RF I DNA is between 100 and 110 $\mu$ g/ml as determined by UV absorption at 260 nm.	Pass
<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.	Pass
<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.	Pass
<b>Restriction Digest (Linearization)</b> - A 50 $\mu$ l reaction in CutSmart <sup>TM</sup> Buffer containing 5 $\mu$ g 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

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Authorized by Derek Robinson 08 Jul 2014



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Inspected by Vanessa Mathieu-Sheltry 15 Sep 2017