

New England Biolabs Certificate of Analysis

Product Name: *M13mp18 RF I DNA*
Catalog #: *N4018S*
Concentration: *100 µg/ml*
Unit Definition: *N/A*
Lot #: *0421407*
Assay Date: *07/2014*
Expiration Date: *07/2016*
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 #0421407
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



Authorized by
Derek Robinson
08 Jul 2014



Inspected by
Vanessa Mathieu-Sheltry
25 Jul 2014

