

New England Biolabs Certificate of Analysis

Product Name: M13mp18 RF I DNA
Catalog #: N4018S
Concentration: 100 µg/ml
Unit Definition: N/A
Lot #: 0421704
Assay Date: 04/2017
Expiration Date: 4/2019
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 #0421704 |
|---|--------------|
| 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 Apr 2017

