

New England Biolabs Certificate of Analysis

Product Name: M13mp18 Single-stranded DNA

 Catalog #:
 N4040S

 Concentration:
 250 μg/ml

 Unit Definition:
 N/A

 Lot #:
 0161511

 Assay Date:
 11/2015

 Expiration Date:
 11/2017

 Storage Temp:
 -20°C

Storage Conditions: 10 mM Tris-HCl (pH 8.0), 1 mM EDTA

Specification Version: PS-N4040S v2.0 Effective Date: 08 Jul 2014

| Assay Name/Specification (minimum release criteria) | Lot #0161511 |
|---|--------------|
| A260/A280 Assay - The ratio of UV absorption of M13mp18 Single-stranded DNA at 260 and 280 nm is between 1.8 and 2.0. | Pass |
| DNA Concentration (A260) - The concentration of M13mp18 Single-stranded DNA is between 250 and 260 μg/ml as determined by UV absorption at 260 nm. | Pass |
| Electrophoretic Pattern (Plasmid) - The banding pattern of M13mp18 Single-stranded 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 |
| Mung Bean Nuclease Digest (Sensitive) - A 100 μl reaction in Mung Bean Nuclease Reaction Buffer containing 2.5 μg of M13mp18 Single-stranded DNA and 10 units of Mung Bean Nuclease incubated for 1 hour at 30°C results in complete digestion of the DNA as determined by agarose gel electrophoresis. | Pass |
| Non-Specific DNase Activity (DNA, 16 hour) - A 50 μl reaction in 1X NEBuffer 2 containing 2.5 μg of M13mp18 Single-stranded 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 (Single Stranded, Resistant) - A 50 μl reaction in CutSmart TM Buffer containing 2.5 μg of M13mp18 Single-stranded DNA and a minimum of 20 units of XhoI incubated for 1 hour at 37°C results in no detectable digestion of the DNA as determined by agarose gel electrophoresis. | Pass |

Authorized by Derek Robinson 08 Jul 2014







Inspected by

Vanessa Mathieu-Sheltry

18 Nov 2015