Biosabos

## New England Biolabs <br> Certificate of Analysis

| Product Name: | M13mp18 Single-stranded DNA |
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| Catalog \#: | $N 4040 \mathrm{~S}$ |
| Concentration: | $250 \mu \mathrm{~g} / \mathrm{ml}$ |
| Unit Definition: | $\mathrm{N} / \mathrm{A}$ |
| Lot \#: | 0181704 |
| Assay Date: | $04 / 2017$ |
| Expiration Date: | $4 / 2019$ |
| Storage Temp: | $-20^{\circ} \mathrm{C}$ |
| Storage Conditions: | 10 mM Tris- HCl (pH 8.0), 1 mM EDTA |
| Specification Version: | PS-N4040S m 2.0 |
| Effective Date: | 15 Dec 2016 |


| Assay Name/Specification (minimum release criteria) | Lot \#0181704 |
| :---: | :---: |
| 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. <br> DNA Concentration (A260) - The concentration of M13mp18 Single-stranded DNA is between 250 and 260 $\mu \mathrm{g} / \mathrm{ml}$ as determined by UV absorption at 260 nm . <br> 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. <br> Mung Bean Nuclease Digest (Sensitive) - A $100 \mu 1$ reaction in Mung Bean Nuclease Reaction Buffer containing $2.5 \mu \mathrm{~g}$ of M13mp18 Single-stranded DNA and 10 units of Mung Bean Nuclease incubated for 1 hour at $30^{\circ} \mathrm{C}$ results in complete digestion of the DNA as determined by agarose gel electrophoresis. <br> Non-Specific DNase Activity (DNA, 16 hour) - A $50 \mu 1$ reaction in 1X NEBuffer 2 containing $2.5 \mu \mathrm{~g}$ of M13mp18 Single-stranded DNA incubated for 16 hours at $37^{\circ} \mathrm{C}$ results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis. <br> Restriction Digest (Single Stranded, Resistant) - A $50 \mu 1$ reaction in CutSmart ${ }^{\text {TM }}$ Buffer containing $2.5 \mu \mathrm{~g}$ of M13mp18 Single-stranded DNA and a minimum of 20 units of XhoI incubated for 1 hour at $37^{\circ} \mathrm{C}$ results in no detectable digestion of the DNA as determined by agarose gel electrophoresis. | Pass <br> Pass <br> Pass <br> Pass <br> Pass <br> Pass |



Authorized by
Derek Robinson
15 Dec 2016

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[^0]:    Inspected by
    Chris Provost
    18 May 2017

