Antibiotic Resistance (Streptomycin) - 15 µl of untransformed NEB® Stable Competent E. coli (High Efficiency) streaked onto a Rich Broth plate containing Streptomycin will form colonies after incubation for 16 hours at 37°C.

Pass

Antibiotic Resistance (Tetracycline) - 15 µl of untransformed NEB® Stable Competent E. coli (High Efficiency) streaked onto a Rich Broth plate containing Tetracycline will form colonies after incubation for 16 hours at 37°C.

Pass

Antibiotic Sensitivity (Ampicillin) - 15 µl of untransformed NEB® Stable Competent E. coli (High Efficiency) streaked onto a Rich Broth plate containing Ampicillin will not form colonies after incubation for 16 hours at 37°C.

Pass

Antibiotic Sensitivity (Chloramphenicol) - 15 µl of untransformed NEB® Stable Competent E. coli (High Efficiency) streaked onto a Rich Broth plate containing Chloramphenicol will not form colonies after incubation for 16 hours at 37°C.

Pass

Antibiotic Sensitivity (Kanamycin) - 15 µl of untransformed NEB® Stable Competent E. coli (High Efficiency) streaked onto a Rich Broth plate containing Kanamycin will not form colonies after incubation for 16 hours at 37°C.

Pass

Antibiotic Sensitivity (Nitrofurantoin) - 15 µl of untransformed NEB® Stable Competent E. coli (High Efficiency) streaked onto a Rich Broth plate containing Nitrofurantoin will not form colonies after incubation for 16 hours at 37°C.

Pass

Antibiotic Sensitivity (Spectinomycin) - 15 µl of untransformed NEB® Stable Competent E. coli (High Efficiency) streaked onto a Rich Broth plate containing Spectinomycin will not form colonies after incubation for 16 hours at 37°C.

Pass
<table>
<thead>
<tr>
<th>Assay Name/Specification (minimum release criteria)</th>
<th>Lot #0691712</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Blue-White Screening (α-complementation, Competent Cells)</strong> - NEB® Stable Competent <em>E. coli</em> (High Efficiency) were shown to be suitable for blue/white screening by α-complementation of the β-galactosidase gene using pUC19.</td>
<td>Pass</td>
</tr>
<tr>
<td><strong>Phage Resistance (Φ 80)</strong> - 15 µl of untransformed NEB® Stable Competent <em>E. coli</em> (High Efficiency) streaked onto a Rich Broth plate does not support plaque formation by phage Φ 80 after incubation for 16 hours at 37°C.</td>
<td>Pass</td>
</tr>
<tr>
<td><strong>Transformation Efficiency</strong> - 50 µl of NEB® Stable Competent <em>E. coli</em> (High Efficiency) cells were transformed with 100 pg of pUC19 DNA using the transformation protocol provided. Incubation overnight on LB-Ampicillin plates at 37°C resulted in &gt;1 x 10e9 cfu/µg of DNA.</td>
<td>Pass</td>
</tr>
</tbody>
</table>

Authorized by
Derek Robinson
06 Oct 2017

Inspected by
Lixin An
15 Dec 2017