Assay Name/Specification (minimum release criteria) | Lot #0961704
---|---
**Antibiotic Sensitivity (Ampicillin)** - 15 µl of untransformed NEB® 5-alpha Electrocompetent *E. coli* streaked onto a LB or 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® 5-alpha Electrocompetent *E. coli* streaked onto a LB or 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® 5-alpha Electrocompetent *E. coli* streaked onto a LB or 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® 5-alpha Electrocompetent *E. coli* streaked onto a LB or 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® 5-alpha Electrocompetent *E. coli* streaked onto a LB or Rich Broth plate containing Spectinomycin will not form colonies after incubation for 16 hours at 37°C. | Pass

**Antibiotic Sensitivity (Streptomycin)** - 15 µl of untransformed NEB® 5-alpha Electrocompetent *E. coli* streaked onto a LB or Rich Broth plate containing Streptomycin will not form colonies after incubation for 16 hours at 37°C. | Pass

**Antibiotic Sensitivity (Tetracycline)** - 15 µl of untransformed NEB® 5-alpha Electrocompetent *E. coli* streaked onto a LB or Rich Broth plate containing Tetracycline 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 #0961704</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Blue-White Screening (α-complementation, Competent Cells)</strong> - NEB® 5-alpha Electrocompetent <em>E. coli</em> 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® 5-alpha Electrocompetent <em>E. coli</em> 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> - 25 µl of NEB® 5-alpha Electrocompetent <em>E. coli</em> cells were transformed with 10 pg of pUC19 DNA using the transformation protocol provided. Incubation overnight on LB-Ampicillin plates at 37°C resulted in &gt;1 x 10e10 cfu/µg of DNA.</td>
<td>Pass</td>
</tr>
</tbody>
</table>

Authorized by
Qiuting Ren
06 Apr 2017

Inspected by
Qiuting Ren
19 Jun 2017