Product Name: NEB® 10-beta Electrocompetent E.coli
Catalog Number: C3020K
Packaging Lot Number: 10141124
Expiration Date: 02/2023
Storage Temperature: -80°C
Specification Version: PS-C3020K v1.0

NEB 10-beta Electrocompetent E.coli Component List

<table>
<thead>
<tr>
<th>NEB Part Number</th>
<th>Component Description</th>
<th>Lot Number</th>
<th>Individual QC Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>N3041AVIAL</td>
<td>pUC19 Vector</td>
<td>10129358</td>
<td>Pass</td>
</tr>
<tr>
<td>C3020KVIAL</td>
<td>NEB® 10-beta Electrocompetent E.coli</td>
<td>10126215</td>
<td>Pass</td>
</tr>
<tr>
<td>B9035SVIAL</td>
<td>NEB® 10-beta/Stable Outgrowth Medium</td>
<td>10129374</td>
<td>Pass</td>
</tr>
</tbody>
</table>

Assay Name/Specification

Blue-White Screening (α-complementation, Competent Cells)
NEB® 10-beta Electrocompetent E. coli were shown to be suitable for blue/white screening by α-complementation of the β-galactosidase gene using pUC19.

Phage Resistance (ϕ 80)
15 µl of untransformed NEB® 10-beta Electrocompetent E. coli streaked onto a Rich Broth plate does not support plaque formation by phage ϕ 80 after incubation for 16 hours at 37°C.

Transformation Efficiency
25 µl of NEB® 10-beta Electrocompetent E. coli 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 >2 x 10e10 cfu/µg of DNA.

Antibiotic Resistance (Streptomycin)
15 µl of untransformed NEB® 10-beta Electrocompetent E. coli streaked onto a LB or Rich Broth plate containing Streptomycin will form colonies after incubation for 16 hours at 37°C.

Antibiotic Sensitivity (Ampicillin)
15 µl of untransformed NEB® 10-beta 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.
**Assay Name/Specification** | **Lot # 10141124**
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**Antibiotic Sensitivity (Chloramphenicol)**  
15 µl of untransformed NEB® 10-beta 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® 10-beta 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 (Spectinomycin)**  
15 µl of untransformed NEB® 10-beta 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 (Nitrofurantoin)**  
15 µl of untransformed NEB® 10-beta 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 (Tetracycline)**  
15 µl of untransformed NEB® 10-beta 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

This product has been tested and shown to be in compliance with all specifications.

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15 Feb 2022

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