**Product Name:** BL21(DE3) Competent E. coli  
**Catalog Number:** C2527I  
**Packaging Lot Number:** 10137578  
**Expiration Date:** 12/2022  
**Storage Temperature:** -80°C  
**Specification Version:** PS-C2527H/I v1.0

### BL21(DE3) Competent 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>C2527IVIAL</td>
<td>BL21(DE3) Competent E. coli</td>
<td>10118149</td>
<td>Pass</td>
</tr>
<tr>
<td>B9020SVIAL</td>
<td>SOC Outgrowth Medium</td>
<td>10121877</td>
<td>Pass</td>
</tr>
</tbody>
</table>

### Assay Name/Specification  
Lot # 10137578

**Antibiotic Sensitivity (Spectinomycin)**  
15 µl of untransformed BL21(DE3) Competent E. coli streaked onto a 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 BL21(DE3) Competent E. coli streaked onto a 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 BL21(DE3) Competent E. coli streaked onto a Rich Broth plate containing Tetracycline will not form colonies after incubation for 16 hours at 37°C.  
Pass

**Antibiotic Sensitivity (Ampicillin)**  
15 µl of untransformed BL21(DE3) Competent E. coli 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 BL21(DE3) Competent E. coli streaked onto a Rich Broth plate containing Chloramphenicol will not form colonies after incubation for 16 hours at 37°C.  
Pass
<table>
<thead>
<tr>
<th>Assay Name/Specification</th>
<th>Lot # 10137578</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Antibiotic Sensitivity (Kanamycin)</strong></td>
<td>Pass</td>
</tr>
<tr>
<td>15 µl of untransformed BL21(DE3) Competent E. coli streaked onto a Rich Broth plate containing Kanamycin will not form colonies after incubation for 16 hours at 37°C.</td>
<td></td>
</tr>
</tbody>
</table>

| **Transformation Efficiency**                  | Pass           |
| 50 µl of BL21(DE3) Competent E. coli 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 >1 x 10^7 cfu/µg of DNA. |               |

| **Phage Resistance (ϕ 80)**                    | Pass           |
| 15 µl of untransformed BL21(DE3) Competent 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. |               |

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

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20 Jan 2022

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Packaging Quality Control Inspector  
20 Jan 2022