

## New England Biolabs Certificate of Analysis

Product Name: BL21(DE3) Competent *E. coli*  
 Catalog Number: C25271  
 Packaging Lot Number: 10168107  
 Expiration Date: 10/2023  
 Storage Temperature: -80°C  
 Specification Version: PS-C2527H/I v1.0

| BL21(DE3) Competent <i>E. coli</i> Component List |                                    |            |                      |
|---|------------------------------------|------------|----------------------|
| NEB Part Number                                   | Component Description              | Lot Number | Individual QC Result |
| N3041AVIAL  | pUC19 Vector                       | 10160822   | Pass                 |
| C2527IVIAL  | BL21(DE3) Competent <i>E. coli</i> | 10151902   | Pass                 |
| B9020SVIAL  | SOC Outgrowth Medium               | 10160311   | Pass                 |

| Assay Name/Specification  | Lot # 10168107 |
|---|----------------|
| <p><b>Antibiotic Sensitivity (Tetracycline)</b><br/>           15 µl of untransformed BL21(DE3) Competent <i>E. coli</i> streaked onto a Rich Broth plate containing Tetracycline will not form colonies after incubation for 16 hours at 37°C.</p>   | Pass           |
| <p><b>Transformation Efficiency</b><br/>           50 µl of BL21(DE3) Competent <i>E. coli</i> 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 10<sup>7</sup> cfu/µg of DNA.</p> | Pass           |
| <p><b>Phage Resistance (φ 80)</b><br/>           15 µl of untransformed BL21(DE3) Competent <i>E. coli</i> streaked onto a Rich Broth plate does not support plaque formation by phage φ 80 after incubation for 16 hours at 37°C.</p>  | Pass           |
| <p><b>Antibiotic Sensitivity (Streptomycin)</b><br/>           15 µl of untransformed BL21(DE3) Competent <i>E. coli</i> streaked onto a Rich Broth plate containing Streptomycin will not form colonies after incubation for 16 hours at 37°C.</p>   | Pass           |
| <p><b>Antibiotic Sensitivity (Chloramphenicol)</b><br/>           15 µl of untransformed BL21(DE3) Competent <i>E. coli</i> streaked onto a Rich Broth plate containing Chloramphenicol will not form colonies after incubation for 16 hours at 37°C.</p>   | Pass           |

| Assay Name/Specification  | Lot # 10168107 |
|---|----------------|
| 37°C.   |                |
| <b>Antibiotic Sensitivity (Kanamycin)</b><br>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.         | <b>Pass</b>    |
| <b>Antibiotic Sensitivity (Ampicillin)</b><br>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.       | <b>Pass</b>    |
| <b>Antibiotic Sensitivity (Spectinomycin)</b><br>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. | <b>Pass</b>    |

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

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21 Jun 2022



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12 Oct 2022