

## New England Biolabs Certificate of Analysis

**Product Name:** BL21(DE3) Competent *E. coli*  
**Catalog Number:** C2527H  
**Packaging Lot Number:** 10198489  
**Expiration Date:** 06/2024  
**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                       | 10190979   | Pass                 |
| C2527HVIAL  | BL21(DE3) Competent <i>E. coli</i> | 10175073   | Pass                 |
| B9020SVIAL  | SOC Outgrowth Medium               | 10174271   | Pass                 |

| Assay Name/Specification   | Lot # 10198489 |
|--|----------------|
| <b>Antibiotic Sensitivity (Ampicillin)</b><br>15 µl of untransformed BL21(DE3) Competent <i>E. coli</i> streaked onto a Rich Broth plate containing Ampicillin will not form colonies after incubation for 16 hours at 37°C.           | Pass           |
| <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. | Pass           |
| <b>Antibiotic Sensitivity (Kanamycin)</b><br>15 µl of untransformed BL21(DE3) Competent <i>E. coli</i> streaked onto a Rich Broth plate containing Kanamycin will not form colonies after incubation for 16 hours at 37°C.             | Pass           |
| <b>Antibiotic Sensitivity (Spectinomycin)</b><br>15 µl of untransformed BL21(DE3) Competent <i>E. coli</i> streaked onto a Rich Broth plate containing Spectinomycin will not form colonies after incubation for 16 hours at 37°C.     | Pass           |
| <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.       | Pass           |

| Assay Name/Specification  | Lot # 10198489 |
|---|----------------|
| <p><b>Antibiotic Sensitivity (Tetracycline)</b><br/>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.</p>   | <b>Pass</b>    |
| <p><b>Phage Resistance (φ 80)</b><br/>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.</p>  | <b>Pass</b>    |
| <p><b>Transformation Efficiency</b><br/>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 &gt;1 x 10<sup>7</sup> cfu/µg of DNA.</p> | <b>Pass</b>    |

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

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24 Mar 2023



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03 Jul 2023