

New England Biolabs Certificate of Analysis

Product Name: BL21(DE3) Competent *E. coli*
Catalog Number: C25271
Packaging Lot Number: 10233250
Expiration Date: 02/2025
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 | 10212040 | Pass |
| C2527IVIAL | BL21(DE3) Competent <i>E. coli</i> | 10206972 | Pass |
| B9020SVIAL | SOC Outgrowth Medium | 10202685 | Pass |

| Assay Name/Specification | Lot # 10233250 |
|--|----------------|
| Antibiotic Sensitivity (Ampicillin) 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 |
| Antibiotic Sensitivity (Chloramphenicol) 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 |
| Antibiotic Sensitivity (Kanamycin) 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 |
| Antibiotic Sensitivity (Spectinomycin) 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 |
| Antibiotic Sensitivity (Streptomycin) 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 |

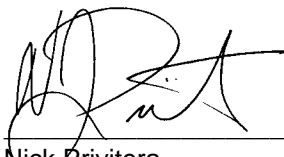
| Assay Name/Specification | Lot # 10233250 |
|---|----------------|
| <p>Antibiotic Sensitivity (Tetracycline) 15 µl of untransformed BL21(DE3) Competent E. coli streaked onto a Rich Broth plate containing Tetracycline will not form colonies after incubation for 16 hours at 37°C.</p> | Pass |
| <p>Phage Resistance (φ 80) 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> | Pass |
| <p>Transformation Efficiency 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 10⁷ cfu/µg of DNA.</p> | Pass |

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

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Production Scientist
13 Oct 2023



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Packaging Quality Control Inspector
20 Feb 2024