

New England Biolabs Certificate of Analysis

Product Name: BL21(DE3) Competent *E. coli*
Catalog Number: C25271
Lot Number: 10043191
Expiration Date: 04/2020
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 | 10035844 | Pass |
| C2527IVIAL | BL21(DE3) Competent <i>E. coli</i> | 10031833 | Pass |
| B9020SVIAL | SOC Outgrowth Medium | 10032901 | Pass |

| Assay Name/Specification | Lot # 10043191 |
|---|----------------|
| Phage Resistance (ϕ 80) 15 μ l 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. | Pass |
| Transformation Efficiency 50 μ l 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 $>1 \times 10^7$ cfu/ μ g of DNA. | Pass |
| Antibiotic Sensitivity (Ampicillin) 15 μ l 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 μ l 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 μ l 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 |

| Assay Name/Specification | Lot # 10043191 |
|---|----------------|
| <p>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.</p> | Pass |
| <p>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.</p> | Pass |
| <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 |

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



Lixin An
Production Scientist
18 Dec 2018



Corey Rabeau
Packaging Quality Control Inspector
29 Apr 2019