

## New England Biolabs Certificate of Analysis

**Product Name:** *Lemo21(DE3) Competent E. coli*  
**Catalog Number:** C2528J  
**Packaging Lot Number:** 10142462  
**Expiration Date:** 01/2023  
**Storage Temperature:** -80°C  
**Specification Version:** PS-C2528J v2.0

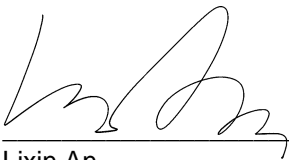
| Lemo21(DE3) Competent E. coli Component List |                               |            |                      |
|--|-------------------------------|------------|----------------------|
| NEB Part Number                              | Component Description         | Lot Number | Individual QC Result |
| N3041AVIAL                                   | pUC19 Vector                  | 10129358   | Pass                 |
| C2528JVIAL                                   | Lemo21(DE3) Competent E. coli | 10119553   | Pass                 |
| B9030AVIAL                                   | L-rhamnose solution           | 10137234   | Pass                 |

| Assay Name/Specification  | Lot # 10142462 |
|---|----------------|
| <b>Antibiotic Sensitivity (Spectinomycin)</b><br>15 µl of untransformed Lemo21(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>    |
| <b>Antibiotic Sensitivity (Tetracycline)</b><br>15 µl of untransformed Lemo21(DE3) Competent E. coli streaked onto a Rich Broth plate containing Tetracycline will not form colonies after incubation for 16 hours at 37°C.   | <b>Pass</b>    |
| <b>Antibiotic Sensitivity (Streptomycin)</b><br>15 µl of untransformed Lemo21(DE3) Competent E. coli streaked onto a Rich Broth plate containing Streptomycin 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 Lemo21(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 (Kanamycin)</b><br>15 µl of untransformed Lemo21(DE3) Competent E. coli streaked onto a Rich Broth plate containing Kanamycin will not form colonies after incubation for 16 hours at               | <b>Pass</b>    |

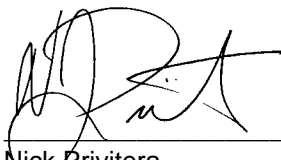
| Assay Name/Specification  | Lot # 10142462 |
|---|----------------|
| <p>37°C.</p> <p><b>Antibiotic Resistance (Chloramphenicol)</b><br/>15 µl of untransformed Lemo21(DE3) Competent E. coli streaked onto a Rich Broth plate containing Chloramphenicol will form colonies after incubation for 16 hours at 37°C.</p>                           | <b>Pass</b>    |
| <p><b>Transformation Efficiency</b><br/>50 µl of Lemo21(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 10e7 cfu/µg of DNA.</p> | <b>Pass</b>    |
| <p><b>Phage Resistance (φ 80)</b><br/>15 µl of untransformed Lemo21(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>    |

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

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03 Mar 2022



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