

## New England Biolabs Certificate of Analysis

Product Name: NiCo21(DE3) Competent *E. coli*  
 Catalog Number: C2529H  
 Packaging Lot Number: 10081239  
 Expiration Date: 08/2021  
 Storage Temperature: -80°C  
 Specification Version: PS-C2529H v1.0

| NiCo21(DE3) Competent <i>E. coli</i> Component List |                                      |            |                      |
|---|--------------------------------------|------------|----------------------|
| NEB Part Number                                     | Component Description                | Lot Number | Individual QC Result |
| N3041AVIAL  | pUC19 Vector                         | 10078142   | Pass                 |
| C2529HVIAL  | NiCo21(DE3) Competent <i>E. coli</i> | 10048265   | Pass                 |
| B9020SVIAL  | SOC Outgrowth Medium                 | 10062410   | Pass                 |

| Assay Name/Specification   | Lot # 10081239 |
|--|----------------|
| <b>Antibiotic Sensitivity (Ampicillin)</b><br>15 µl of untransformed NiCo21(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 NiCo21(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 NiCo21(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 NiCo21(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 NiCo21(DE3) Competent <i>E. coli</i> streaked onto a Rich Broth plate containing Streptomycin will not form colonies after incubation for 16 hours                | Pass           |

| Assay Name/Specification  | Lot # 10081239 |
|---|----------------|
| at 37°C.  |                |
| <p><b>Antibiotic Sensitivity (Tetracycline)</b><br/>15 µl of untransformed NiCo21(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 NiCo21(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 NiCo21(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>    |

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit [www.neb.com/trademarks](http://www.neb.com/trademarks) for additional information.



Lixin An  
Production Scientist  
05 Aug 2020



Nick Privitera  
Packaging Quality Control Inspector  
05 Aug 2020