

## New England Biolabs Certificate of Analysis

Product Name: NiCo21(DE3) Competent *E. coli*  
 Catalog Number: C2529H  
 Packaging Lot Number: 10079695  
 Expiration Date: 06/2021  
 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	10066466	Pass
C2529HVIAL	NiCo21(DE3) Competent <i>E. coli</i>	10048265	Pass
B9020SVIAL	SOC Outgrowth Medium	10062408	Pass

Assay Name/Specification	Lot # 10079695
<p><b>Phage Resistance (<math>\phi</math> 80)</b>            15 <math>\mu</math>l of untransformed NiCo21(DE3) Competent <i>E. coli</i> streaked onto a Rich Broth plate does not support plaque formation by phage <math>\phi</math> 80 after incubation for 16 hours at 37°C.</p>	Pass
<p><b>Transformation Efficiency</b>            50 <math>\mu</math>l of NiCo21(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 <math>&gt;1 \times 10^7</math> cfu/<math>\mu</math>g of DNA.</p>	Pass
<p><b>Antibiotic Sensitivity (Tetracycline)</b>            15 <math>\mu</math>l of untransformed NiCo21(DE3) Competent <i>E. coli</i> streaked onto a Rich Broth plate containing Tetracycline will not form colonies after incubation for 16 hours at 37°C.</p>	Pass
<p><b>Antibiotic Sensitivity (Ampicillin)</b>            15 <math>\mu</math>l 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.</p>	Pass
<p><b>Antibiotic Sensitivity (Chloramphenicol)</b>            15 <math>\mu</math>l 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</p>	Pass

Assay Name/Specification	Lot # 10079695
<p>hours at 37°C.</p> <p><b>Antibiotic Sensitivity (Kanamycin)</b> 15 µl of untransformed NiCo21(DE3) Competent E. coli streaked onto a Rich Broth plate containing Kanamycin will not form colonies after incubation for 16 hours at 37°C.</p>	<b>Pass</b>
<p><b>Antibiotic Sensitivity (Spectinomycin)</b> 15 µl of untransformed NiCo21(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>	<b>Pass</b>
<p><b>Antibiotic Sensitivity (Streptomycin)</b> 15 µl of untransformed NiCo21(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>	<b>Pass</b>

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



Lixin An  
Production Scientist  
16 Jul 2020



Nick Privitera  
Packaging Quality Control Inspector  
16 Jul 2020