

## New England Biolabs Certificate of Analysis

**Product Name:** *Lemo21(DE3) Competent E. coli*  
**Catalog Number:** C2528J  
**Packaging Lot Number:** 10124207  
**Expiration Date:** 09/2022  
**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	10115609	Pass
C2528JVIAL	Lemo21(DE3) Competent E. coli	10100890	Pass
B9030AVIAL	L-rhamnose solution	10113570	Pass

Assay Name/Specification	Lot # 10124207
<b>Antibiotic Sensitivity (Tetracycline)</b> 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> 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 (Spectinomycin)</b> 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>Phage Resistance (φ 80)</b> 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.	<b>Pass</b>
<b>Transformation Efficiency</b> 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	<b>Pass</b>

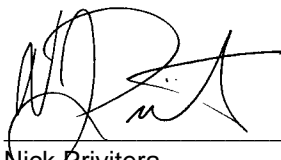
Assay Name/Specification	Lot # 10124207
LB-Ampicillin plates at 37°C resulted in >1 x 10e7 cfu/μg of DNA.	
<p><b>Antibiotic Resistance (Chloramphenicol)</b> 15 μl of untransformed Lemo21(DE3) Competent E. coli streaked onto a Rich Broth plate containing Chloramphenicol will form colonies after incubation for 16 hours at 37°C.</p>	<b>Pass</b>
<p><b>Antibiotic Sensitivity (Kanamycin)</b> 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 37°C.</p>	<b>Pass</b>
<p><b>Antibiotic Sensitivity (Ampicillin)</b> 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.</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  
08 Oct 2021



Nick Privitera  
Packaging Quality Control Inspector  
08 Oct 2021