

## New England Biolabs Certificate of Analysis

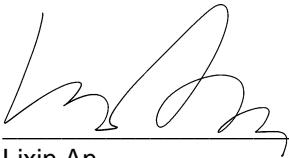
**Product Name:** *Lemo21(DE3) Competent E. coli*  
**Catalog Number:** C2528J  
**Lot Number:** 10016307  
**Expiration Date:** 08/2019  
**Storage Temperature:** -80°C  
**Specification Version:** PS-C2528J v2.0

Lemo21(DE3) Competent E. coli Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N3041AVIAL	pUC19 Vector	10010689	Pass
C2528JVIAL	Lemo21(DE3) Competent E. coli	10016027	Pass
B9030AVIAL	L-rhamnose solution	0141710	Pass

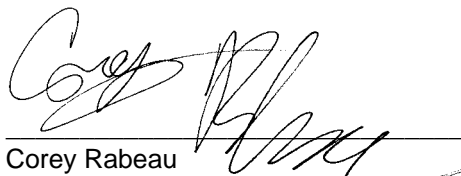
Assay Name/Specification	Lot # 10016307
<b>Phage Resistance (<math>\phi</math> 80)</b> 15 $\mu$ l of untransformed Lemo21(DE3) Competent E. coli streaked onto a Rich Broth plate does not support plaque formation by phage $\phi$ 80 after incubation for 16 hours at 37°C.	<b>Pass</b>
<b>Transformation Efficiency</b> 50 $\mu$ l 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 $>1 \times 10^7$ cfu/ $\mu$ g of DNA.	<b>Pass</b>
<b>Antibiotic Sensitivity (Streptomycin)</b> 15 $\mu$ l 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 (Tetracycline)</b> 15 $\mu$ l 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 Resistance (Chloramphenicol)</b> 15 $\mu$ l of untransformed Lemo21(DE3) Competent E. coli streaked onto a Rich Broth plate containing Chloramphenicol will form colonies after incubation for 16 hours at	<b>Pass</b>

Assay Name/Specification	Lot # 10016307
<p>37°C.</p> <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>
<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 (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.</p>	<b>Pass</b>

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



Lixin An  
Production Scientist  
27 Jul 2018



Corey Rabeau  
Packaging Quality Control Inspector  
09 Aug 2018