

## New England Biolabs Certificate of Analysis

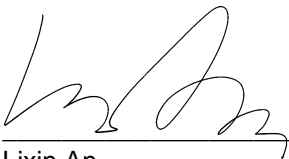
Product Name: BL21(DE3) Competent *E. coli*  
 Catalog Number: C2527I  
 Packaging Lot Number: 10077688  
 Expiration Date: 05/2021  
 Storage Temperature: -80°C  
 Specification Version: PS-C2527H/I v1.0

BL21(DE3) Competent <i>E. coli</i> Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N3041AVIAL	pUC19 Vector	10066466	Pass
C2527IVIAL	BL21(DE3) Competent <i>E. coli</i>	10059898	Pass
B9020SVIAL	SOC Outgrowth Medium	10062394	Pass

Assay Name/Specification	Lot # 10077688
<p><b>Transformation Efficiency</b>            50 µl of BL21(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 &gt;1 x 10<sup>7</sup> cfu/µg of DNA.</p>	Pass
<p><b>Phage Resistance (φ 80)</b>            15 µl of untransformed BL21(DE3) Competent <i>E. coli</i> streaked onto a Rich Broth plate does not support plaque formation by phage φ 80 after incubation for 16 hours at 37°C.</p>	Pass
<p><b>Antibiotic Sensitivity (Tetracycline)</b>            15 µl of untransformed BL21(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 µl of untransformed BL21(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 µl of untransformed BL21(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.</p>	Pass

Assay Name/Specification	Lot # 10077688
<p><b>Antibiotic Sensitivity (Kanamycin)</b> 15 µl of untransformed BL21(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 BL21(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 BL21(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  
17 Jun 2020



Corey Rabeau  
Packaging Quality Control Inspector  
17 Jun 2020