

## New England Biolabs Certificate of Analysis

Product Name: *BL21 Competent E. coli*  
 Catalog Number: C2530H  
 Packaging Lot Number: 10162423  
 Expiration Date: 07/2023  
 Storage Temperature: -80°C  
 Specification Version: PS-C2530H v1.0

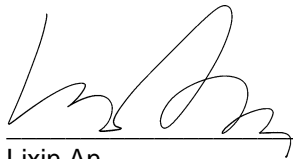
BL21 Competent E. coli Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N3041AVIAL	pUC19 Vector	10152456	Pass
C2530HVIAL	BL21 Competent E. coli	10134883	Pass
B9020SVIAL	SOC Outgrowth Medium	10152373	Pass

Assay Name/Specification	Lot # 10162423
<p><b>Antibiotic Sensitivity (Chloramphenicol)</b>            15 µl of untransformed BL21 Competent E. coli streaked onto a Rich Broth plate containing Chloramphenicol 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 Competent E. coli 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 (Spectinomycin)</b>            15 µl of untransformed BL21 Competent E. coli streaked onto a Rich Broth plate containing Spectinomycin will not form colonies after incubation for 16 hours at 37°C.</p>	Pass
<p><b>Antibiotic Sensitivity (Streptomycin)</b>            15 µl of untransformed BL21 Competent E. coli streaked onto a Rich Broth plate containing Streptomycin will not form colonies after incubation for 16 hours at 37°C.</p>	Pass
<p><b>Antibiotic Sensitivity (Kanamycin)</b>            15 µl of untransformed BL21 Competent E. coli streaked onto a Rich Broth plate containing Kanamycin will not form colonies after incubation for 16 hours at 37°C.</p>	Pass

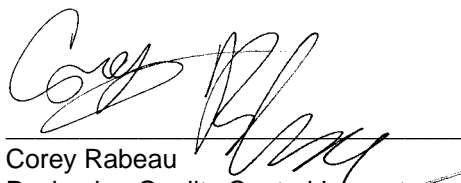
Assay Name/Specification	Lot # 10162423
<p><b>Antibiotic Sensitivity (Tetracycline)</b> 15 µl of untransformed BL21 Competent E. coli streaked onto a Rich Broth plate containing Tetracycline will not form colonies after incubation for 16 hours at 37°C.</p>	<b>Pass</b>
<p><b>Phage Resistance (φ 80)</b> 15 µl of untransformed BL21 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> 50 µl of BL21 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.

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Lixin An  
Production Scientist  
16 Aug 2022



Corey Rabeau  
Packaging Quality Control Inspector  
16 Aug 2022