

## New England Biolabs Certificate of Analysis

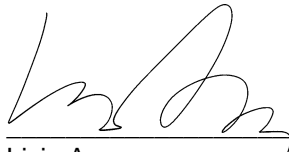
Product Name: BL21 Competent *E. coli*  
 Catalog Number: C2530H  
 Lot Number: 10028042  
 Expiration Date: 10/2019  
 Storage Temperature: -80°C  
 Specification Version: PS-C2530H v1.0

BL21 Competent <i>E. coli</i> Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N3041AVIAL	pUC19 Vector	10017063	Pass
C2530HVIAL	BL21 Competent <i>E. coli</i>	10016082	Pass
B9020SVIAL	SOC Outgrowth Medium	10014588	Pass

Assay Name/Specification	Lot # 10028042
<b>Antibiotic Sensitivity (Kanamycin)</b> 15 µl of untransformed BL21 Competent <i>E. coli</i> streaked onto a Rich Broth plate containing Kanamycin will not form colonies after incubation for 16 hours at 37°C.	Pass
<b>Antibiotic Sensitivity (Spectinomycin)</b> 15 µl of untransformed BL21 Competent <i>E. coli</i> streaked onto a Rich Broth plate containing Spectinomycin will not form colonies after incubation for 16 hours at 37°C.	Pass
<b>Antibiotic Sensitivity (Streptomycin)</b> 15 µl of untransformed BL21 Competent <i>E. coli</i> streaked onto a Rich Broth plate containing Streptomycin will not form colonies after incubation for 16 hours at 37°C.	Pass
<b>Antibiotic Sensitivity (Tetracycline)</b> 15 µl of untransformed BL21 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.	Pass
<b>Phage Resistance (φ 80)</b> 15 µl of untransformed BL21 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.	Pass

Assay Name/Specification	Lot # 10028042
<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>
<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>	<b>Pass</b>
<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>	<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  
27 Jul 2018




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Corey Rabeau  
Packaging Quality Control Inspector  
29 Oct 2018