

## New England Biolabs Certificate of Analysis

**Product Name:** BL21(DE3) Competent *E. coli*  
**Catalog Number:** C2527H  
**Packaging Lot Number:** 10295124  
**Expiration Date:** 05/2026  
**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	10274167	Pass
C2527HVIAL	BL21(DE3) Competent <i>E. coli</i>	10290528	Pass
B9020SVIAL	SOC Outgrowth Medium	10244354	Pass

Assay Name/Specification	Lot # 10295124
<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.	Pass
<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.	Pass
<b>Antibiotic Sensitivity (Kanamycin)</b> 15 µl of untransformed BL21(DE3) 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(DE3) 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(DE3) 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

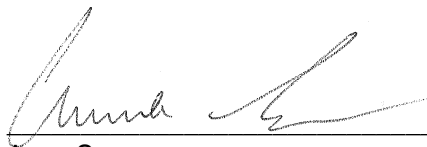
Assay Name/Specification	Lot # 10295124
<b>Antibiotic Sensitivity (Tetracycline)</b> 15 µl of untransformed BL21(DE3) Competent E. coli streaked onto a Rich Broth plate containing Tetracycline will not form colonies after incubation for 16 hours at 37°C.	<b>Pass</b>
<b>Phage Resistance (φ 80)</b> 15 µl of untransformed BL21(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 BL21(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 x 10 <sup>7</sup> cfu/µg of DNA.	<b>Pass</b>

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

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16 May 2025



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09 Jun 2025