

## New England Biolabs Certificate of Analysis

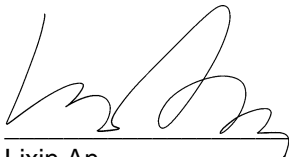
Product Name: *NEB<sup>®</sup> Express Competent E. coli (High Efficiency)*  
 Catalog Number: *C2523H*  
 Lot Number: *10028613*  
 Expiration Date: *08/2020*  
 Storage Temperature: *-80°C*  
 Specification Version: *PS-C2523H/I v1.0*

NEB <sup>®</sup> Express Competent E. coli (High Efficiency) Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N3041AVIAL	pUC19 Vector	10025691	Pass
C2523HVIAL	NEB <sup>®</sup> Express Competent E. coli (High Efficiency)	10009046	Pass
B9020SVIAL	SOC Outgrowth Medium	10014584	Pass


Assay Name/Specification	Lot # 10028613
<b>Antibiotic Resistance (Nitrofurantoin)</b> 15 µl of untransformed NEB Express Competent E. coli (High Efficiency) streaked onto a Rich Broth plate containing Nitrofurantoin will form colonies after incubation for 16 hours at 37°C.	Pass
<b>Antibiotic Sensitivity (Chloramphenicol)</b> 15 µl of untransformed NEB Express Competent E. coli (High Efficiency) 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 NEB Express Competent E. coli (High Efficiency) 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 NEB Express Competent E. coli (High Efficiency) 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 NEB Express Competent E. coli (High Efficiency) streaked onto a Rich Broth plate containing Streptomycin will not form colonies after incubation	Pass

Assay Name/Specification	Lot # 10028613
<p>for 16 hours at 37°C.</p> <p><b>Antibiotic Sensitivity (Tetracycline)</b> 15 µl of untransformed NEB Express Competent E. coli (High Efficiency) 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 NEB Express Competent E. coli (High Efficiency) 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 NEB Express Competent E. coli (High Efficiency) 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;0.6 x 10e9 cfu/µg of DNA.</p>	<b>Pass</b>
<p><b>Antibiotic Sensitivity (Ampicillin)</b> 15 µl of untransformed NEB Express Competent E. coli (High Efficiency) streaked onto a Rich Broth plate containing Ampicillin 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  
02 Nov 2018



Nick Privitera  
Packaging Quality Control Inspector  
02 Nov 2018