

## New England Biolabs Certificate of Analysis

**Product Name:** NEBExpress<sup>®</sup> Competent *E. coli* (High Efficiency)  
**Catalog Number:** C2523H  
**Packaging Lot Number:** 10079072  
**Expiration Date:** 02/2022  
**Storage Temperature:** -80°C  
**Specification Version:** PS-C2523H/I v2.0

NEBExpress <sup>®</sup> Competent <i>E. coli</i> (High Efficiency) Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N3041AVIAL	pUC19 Vector	10066466	Pass
C2523HVIAL	NEBExpress <sup>®</sup> Competent <i>E. coli</i> (High Efficiency)	10051910	Pass
B9020SVIAL	SOC Outgrowth Medium	10062407	Pass

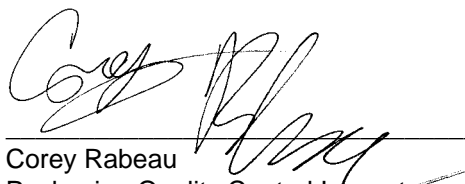
Assay Name/Specification	Lot # 10079072
<b>Antibiotic Resistance (Nitrofurantoin)</b> 15 µl of untransformed NEBExpress <sup>®</sup> Competent <i>E. coli</i> (High Efficiency) streaked onto a Rich Broth plate containing Nitrofurantoin will form colonies after incubation for 16 hours at 37°C.	<b>Pass</b>
<b>Antibiotic Sensitivity (Ampicillin)</b> 15 µl of untransformed NEBExpress <sup>®</sup> Competent <i>E. coli</i> (High Efficiency) streaked onto a Rich Broth plate containing Ampicillin will not form colonies after incubation for 16 hours at 37°C.	<b>Pass</b>
<b>Antibiotic Sensitivity (Chloramphenicol)</b> 15 µl of untransformed NEBExpress <sup>®</sup> Competent <i>E. coli</i> (High Efficiency) streaked onto a Rich Broth plate containing Chloramphenicol will not form colonies after incubation for 16 hours at 37°C.	<b>Pass</b>
<b>Antibiotic Sensitivity (Kanamycin)</b> 15 µl of untransformed NEBExpress <sup>®</sup> Competent <i>E. coli</i> (High Efficiency) streaked onto a Rich Broth plate containing Kanamycin will not form colonies after incubation for 16 hours at 37°C.	<b>Pass</b>
<b>Antibiotic Sensitivity (Spectinomycin)</b> 15 µl of untransformed NEBExpress <sup>®</sup> Competent <i>E. coli</i> (High Efficiency) streaked onto a Rich Broth plate containing Spectinomycin will not form colonies after incubation	<b>Pass</b>

Assay Name/Specification	Lot # 10079072
<p>for 16 hours at 37°C.</p> <p><b>Antibiotic Sensitivity (Streptomycin)</b> 15 µl of untransformed NEBExpress® Competent E. coli (High Efficiency) streaked onto a Rich Broth plate containing Streptomycin will not form colonies after incubation for 16 hours at 37°C.</p>	<b>Pass</b>
<p><b>Antibiotic Sensitivity (Tetracycline)</b> 15 µl of untransformed NEBExpress® 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 NEBExpress® 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 NEBExpress® 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>

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



Lixin An  
Production Scientist  
13 Jul 2020



Corey Rabeau  
Packaging Quality Control Inspector  
13 Jul 2020