

## New England Biolabs Certificate of Analysis

Product Name: NEBExpress<sup>®</sup> Competent *E. coli* (High Efficiency)  
 Catalog Number: C2523I  
 Packaging Lot Number: 10142458  
 Expiration Date: 01/2024  
 Storage Temperature: -80°C  
 Specification Version: PS-C2523H/I v2.0

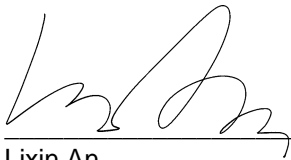
NEBExpress <sup>®</sup> Competent <i>E. coli</i> (High Efficiency) Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N3041AVIAL	pUC19 Vector	10135407	Pass
C2523IVIAL	NEBExpress <sup>®</sup> Competent <i>E. coli</i> (High Efficiency)	10118666	Pass
B9020SVIAL	SOC Outgrowth Medium	10129370	Pass

Assay Name/Specification	Lot # 10142458
<p><b>Antibiotic Sensitivity (Tetracycline)</b>            15 µl of untransformed NEBExpress<sup>®</sup> Competent <i>E. coli</i> (High Efficiency) streaked onto a Rich Broth plate containing Tetracycline will not form colonies after incubation for 16 hours at 37°C.</p>	Pass
<p><b>Phage Resistance (φ 80)</b>            15 µl of untransformed NEBExpress<sup>®</sup> Competent <i>E. coli</i> (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>	Pass
<p><b>Transformation Efficiency</b>            50 µl of NEBExpress<sup>®</sup> Competent <i>E. coli</i> (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 10<sup>9</sup> cfu/µg of DNA.</p>	Pass
<p><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.</p>	Pass
<p><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</p>	Pass

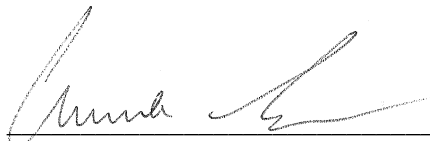
Assay Name/Specification	Lot # 10142458
<p>16 hours at 37°C.</p> <p><b>Antibiotic Sensitivity (Chloramphenicol)</b> 15 µl of untransformed NEBExpress® Competent E. coli (High Efficiency) streaked onto a Rich Broth plate containing Chloramphenicol will not form colonies after incubation for 16 hours at 37°C.</p>	<b>Pass</b>
<p><b>Antibiotic Sensitivity (Ampicillin)</b> 15 µl of untransformed NEBExpress® 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>
<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 (Spectinomycin)</b> 15 µl of untransformed NEBExpress® 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.</p>	<b>Pass</b>

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit [www.neb.com/trademarks](http://www.neb.com/trademarks) for additional information.



Lixin An  
Production Scientist  
28 Feb 2022



Anna Sorensen  
Packaging Quality Control Inspector  
28 Feb 2022