

## New England Biolabs Certificate of Analysis

Product Name: NEB<sup>®</sup> Turbo Competent *E. coli* (High Efficiency)  
 Catalog Number: C2984I  
 Lot Number: 10046065  
 Expiration Date: 05/2020  
 Storage Temperature: -80°C  
 Specification Version: PS-C2984H/I v1.0

NEB <sup>®</sup> Turbo Competent <i>E. coli</i> (High Efficiency) Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N3041AVIAL	pUC19 Vector	10043515	Pass
C2984IVIAL	NEB <sup>®</sup> Turbo Competent <i>E. coli</i> (High Efficiency)	10033416	Pass
B9020SVIAL	SOC Outgrowth Medium	10032916	Pass

Assay Name/Specification	Lot # 10046065
<p><b>Antibiotic Sensitivity (Streptomycin)</b>            15 µl of untransformed NEB<sup>®</sup> Turbo Competent <i>E. coli</i> (High Efficiency) streaked onto a Rich Broth plate containing Streptomycin will not form colonies after incubation for 16 hours at 37°C.</p>	Pass
<p><b>Antibiotic Sensitivity (Tetracycline)</b>            15 µl of untransformed NEB<sup>®</sup> Turbo 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>Blue-White Screening (α-complementation, Competent Cells)</b>            NEB<sup>®</sup> Turbo Competent <i>E. coli</i> (High Efficiency) were shown to be suitable for blue/white screening by α-complementation of the β-galactosidase gene using pUC19.</p>	Pass
<p><b>Phage Resistance (φ 80)</b>            15 µl of untransformed NEB<sup>®</sup> Turbo 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 NEB<sup>®</sup> Turbo 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;1 x 10<sup>9</sup> cfu/µg of DNA.</p>	Pass

Assay Name/Specification	Lot # 10046065
<p><b>Antibiotic Resistance (Nitrofurantoin)</b> 15 µl of untransformed NEB® Turbo Competent E. coli (High Efficiency) streaked onto a Rich Broth plate containing Nitrofurantoin will form colonies after incubation for 16 hours at 37°C.</p>	<b>Pass</b>
<p><b>Antibiotic Sensitivity (Ampicillin)</b> 15 µl of untransformed NEB® Turbo 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 (Chloramphenicol)</b> 15 µl of untransformed NEB® Turbo 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 (Kanamycin)</b> 15 µl of untransformed NEB® Turbo 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.</p>	<b>Pass</b>
<p><b>Antibiotic Sensitivity (Spectinomycin)</b> 15 µl of untransformed NEB® Turbo 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.



Lixin An  
Production Scientist  
25 Jan 2019



Nick Privitera  
Packaging Quality Control Inspector  
23 May 2019