

## New England Biolabs Certificate of Analysis

**Product Name:** NEB® Turbo Competent *E. coli* (High Efficiency)  
**Catalog Number:** C2984H  
**Packaging Lot Number:** 10145208  
**Expiration Date:** 02/2023  
**Storage Temperature:** -80°C  
**Specification Version:** PS-C2984H/I v1.0

NEB® Turbo Competent <i>E. coli</i> (High Efficiency) Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N3041AVIAL	pUC19 Vector	10135407	Pass
C2984HVIAL	NEB® Turbo Competent <i>E. coli</i> (High Efficiency)	10129402	Pass
B9020SVIAL	SOC Outgrowth Medium	10125548	Pass

Assay Name/Specification	Lot # 10145208
<b>Phage Resistance (<math>\phi</math> 80)</b> 15 $\mu$ l of untransformed NEB® Turbo Competent <i>E. coli</i> (High Efficiency) streaked onto a Rich Broth plate does not support plaque formation by phage $\phi$ 80 after incubation for 16 hours at 37°C.	<b>Pass</b>
<b>Blue-White Screening (<math>\alpha</math>-complementation, Competent Cells)</b> NEB® Turbo Competent <i>E. coli</i> (High Efficiency) were shown to be suitable for blue/white screening by $\alpha$ -complementation of the $\beta$ -galactosidase gene using pUC19.	<b>Pass</b>
<b>Transformation Efficiency</b> 50 $\mu$ l of NEB® 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 $>1 \times 10^9$ cfu/ $\mu$ g of DNA.	<b>Pass</b>
<b>Antibiotic Sensitivity (Chloramphenicol)</b> 15 $\mu$ l of untransformed NEB® Turbo 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 (Ampicillin)</b> 15 $\mu$ l of untransformed NEB® Turbo 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>

Assay Name/Specification	Lot # 10145208
<p><b>Antibiotic Resistance (Nitrofurantoin)</b> 15 µl of untransformed NEB<sup>®</sup> 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 (Streptomycin)</b> 15 µl of untransformed NEB<sup>®</sup> Turbo 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 NEB<sup>®</sup> 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>
<p><b>Antibiotic Sensitivity (Spectinomycin)</b> 15 µl of untransformed NEB<sup>®</sup> 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>
<p><b>Antibiotic Sensitivity (Kanamycin)</b> 15 µl of untransformed NEB<sup>®</sup> 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 (Tetracycline)</b> 15 µl of untransformed NEB<sup>®</sup> Turbo 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>

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  
15 Mar 2022



Corey Rabeau  
Packaging Quality Control Inspector  
15 Mar 2022