

## New England Biolabs Certificate of Analysis

**Product Name:** T7 Express Competent *E. coli* (High Efficiency)  
**Catalog Number:** C2566H  
**Packaging Lot Number:** 10178221  
**Expiration Date:** 11/2024  
**Storage Temperature:** -80°C  
**Specification Version:** PS-C2566H/I v1.0

T7 Express Competent <i>E. coli</i> (High Efficiency) Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N3041AVIAL	pUC19 Vector	10173306	Pass
C2566HVIAL	T7 Express Competent <i>E. coli</i> (High Efficiency)	10145725	Pass
B9020SVIAL	SOC Outgrowth Medium	10166770	Pass

Assay Name/Specification	Lot # 10178221
<b>Phage Resistance (<math>\phi</math> 80)</b> 15 $\mu$ l of untransformed T7 Express 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>Transformation Efficiency</b> 50 $\mu$ l of T7 Express 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 $>0.6 \times 10^9$ cfu/ $\mu$ g of DNA.	<b>Pass</b>
<b>Antibiotic Sensitivity (Kanamycin)</b> 15 $\mu$ l of untransformed T7 Express 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 (Chloramphenicol)</b> 15 $\mu$ l of untransformed T7 Express 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 Resistance (Nitrofurantoin)</b> 15 $\mu$ l of untransformed T7 Express Competent <i>E. coli</i> (High Efficiency) streaked onto a Rich Broth plate containing Nitrofurantoin will form colonies after incubation for	<b>Pass</b>

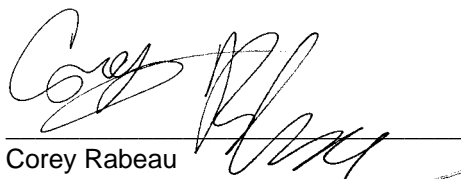
Assay Name/Specification	Lot # 10178221
<p>16 hours at 37°C.</p> <p><b>Antibiotic Sensitivity (Ampicillin)</b> 15 µl of untransformed T7 Express Competent E. coli (High Efficiency) streaked onto a Rich Broth plate containing Ampicillin will not form colonies after incubation for 16 hours at 37°C.</p>	<b>Pass</b>
<p><b>Antibiotic Sensitivity (Spectinomycin)</b> 15 µl of untransformed T7 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.</p>	<b>Pass</b>
<p><b>Antibiotic Sensitivity (Streptomycin)</b> 15 µl of untransformed T7 Express 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 T7 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>

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

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18 Nov 2022



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