

New England Biolabs Certificate of Analysis

Product Name: NEB[®] Stable Competent *E. coli* (High Efficiency)
 Catalog Number: C3040I
 Lot Number: 10011533
 Expiration Date: 05/2019
 Storage Temperature: -80°C
 Specification Version: PS-C3040H/I v1.0

NEB [®] Stable Competent <i>E. coli</i> (High Efficiency) Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N3041AVIAL	pUC19 Vector	40CC67	Pass
C3040IVIAL	NEB [®] Stable Competent <i>E. coli</i> (High Efficiency)	10009067	Pass
B9035SVIAL	NEB [®] 10-beta/Stable Outgrowth Medium	0231804	Pass

Assay Name/Specification	Lot # 10011533
<p>Blue-White Screening (α-complementation, Competent Cells) NEB[®] Stable 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>Phage Resistance (ϕ 80) 15 μl of untransformed NEB[®] Stable 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>Transformation Efficiency 50 μl of NEB[®] Stable 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/μg of DNA.</p>	Pass
<p>Antibiotic Sensitivity (Spectinomycin) 15 μl of untransformed NEB[®] Stable Competent <i>E. coli</i> (High Efficiency) streaked onto a Rich Broth plate containing Spectinomycin will not form colonies after incubation for 16 hours at 37°C.</p>	Pass
<p>Antibiotic Sensitivity (Kanamycin) 15 μl of untransformed NEB[®] Stable 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.</p>	Pass

Assay Name/Specification	Lot # 10011533
<p>Antibiotic Sensitivity (Nitrofurantoin) 15 µl of untransformed NEB® Stable Competent E. coli (High Efficiency) streaked onto a Rich Broth plate containing Nitrofurantoin will not form colonies after incubation for 16 hours at 37°C.</p>	Pass
<p>Antibiotic Sensitivity (Chloramphenicol) 15 µl of untransformed NEB® Stable 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>	Pass
<p>Antibiotic Resistance (Tetracycline) 15 µl of untransformed NEB® Stable Competent E. coli (High Efficiency) streaked onto a Rich Broth plate containing Tetracycline will form colonies after incubation for 16 hours at 37°C.</p>	Pass
<p>Antibiotic Resistance (Streptomycin) 15 µl of untransformed NEB® Stable Competent E. coli (High Efficiency) streaked onto a Rich Broth plate containing Streptomycin will form colonies after incubation for 16 hours at 37°C.</p>	Pass
<p>Antibiotic Sensitivity (Ampicillin) 15 µl of untransformed NEB® Stable 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>	Pass

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



Lixin An
Production Scientist
12 Jun 2018



Corey Rabeau
Packaging Quality Control Inspector
12 Jun 2018