

New England Biolabs Certificate of Analysis

Product Name: NEBExpress® Competent *E. coli* (High Efficiency)
Catalog Number: C2523H
Packaging Lot Number: 10169178
Expiration Date: 08/2024
Storage Temperature: -80°C
Specification Version: PS-C2523H/I v2.0

NEBExpress® Competent <i>E. coli</i> (High Efficiency) Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N3041AVIAL	pUC19 Vector	10165704	Pass
C2523HVIAL	NEBExpress® Competent <i>E. coli</i> (High Efficiency)	10118665	Pass
B9020SVIAL	SOC Outgrowth Medium	10160311	Pass

Assay Name/Specification	Lot # 10169178
Antibiotic Sensitivity (Chloramphenicol) 15 µl of untransformed NEBExpress® 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.	Pass
Antibiotic Sensitivity (Ampicillin) 15 µl of untransformed NEBExpress® 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.	Pass
Antibiotic Resistance (Nitrofurantoin) 15 µl of untransformed NEBExpress® 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.	Pass
Antibiotic Sensitivity (Tetracycline) 15 µl of untransformed NEBExpress® 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.	Pass
Phage Resistance (φ 80) 15 µl of untransformed NEBExpress® Competent <i>E. coli</i> (High Efficiency) streaked onto a Rich Broth plate does not support plaque formation by phage φ 80 after incubation	Pass

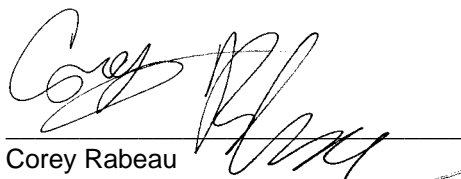
Assay Name/Specification	Lot # 10169178
for 16 hours at 37°C.	
<p>Transformation Efficiency 50 µl of NEBExpress[®] Competent E. coli (High Efficiency) cells were transformed with 100 pg of pUC19 DNA using the transformation protocol provided. Incubation overnight on LB-Ampicillin plates at 37°C resulted in >0.6 x 10e9 cfu/µg of DNA.</p>	Pass
<p>Antibiotic Sensitivity (Spectinomycin) 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>	Pass
<p>Antibiotic Sensitivity (Streptomycin) 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>	Pass
<p>Antibiotic Sensitivity (Kanamycin) 15 µl of untransformed NEBExpress[®] 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>	Pass

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

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Chris Blanchette
Production Scientist
16 Aug 2022



Corey Rabeau
Packaging Quality Control Inspector
20 Oct 2022