

New England Biolabs Certificate of Analysis

Product Name: NEBExpress[®] Iq Competent *E. coli* (High Efficiency)
 Catalog Number: C3037I
 Packaging Lot Number: 10164777
 Expiration Date: 09/2024
 Storage Temperature: -80°C
 Specification Version: PS-C3037I v2.0

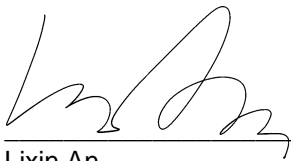
NEBExpress [®] Iq Competent <i>E. coli</i> (High Efficiency) Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
C3037IVIAL	NEBExpress [®] Iq Competent <i>E. coli</i> (High Efficiency)	10045189	Pass

Assay Name/Specification	Lot # 10164777
Antibiotic Resistance (Nitrofurantoin) 15 µl of untransformed NEBExpress [®] Iq 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 (Ampicillin) 15 µl of untransformed NEBExpress [®] Iq 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 (Chloramphenicol) 15 µl of untransformed NEBExpress [®] Iq Competent <i>E. coli</i> (High Efficiency) streaked onto a Rich Broth plate containing Chloramphenicol will form colonies after incubation for 16 hours at 37°C.	Pass
Antibiotic Sensitivity (Kanamycin) 15 µl of untransformed NEBExpress [®] Iq 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.	Pass
Antibiotic Sensitivity (Streptomycin) 15 µl of untransformed NEBExpress [®] Iq 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.	Pass

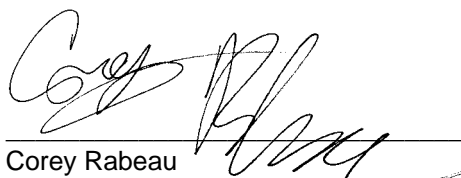
Assay Name/Specification	Lot # 10164777
<p>Antibiotic Sensitivity (Spectinomycin) 15 µl of untransformed NEBExpress[®] Iq Competent E. coli (High Efficiency) streaked onto a Rich Broth plate containing Spectinomycin will not form colonies after incubation for 16 hours at 37°C.</p>	Pass
<p>Transformation Efficiency 50 µl of NEBExpress[®] Iq 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 10⁹ cfu/µg of DNA.</p>	Pass
<p>Phage Resistance (φ 80) 15 µl of untransformed NEBExpress[®] Iq Competent E. coli (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>Antibiotic Sensitivity (Tetracycline) 15 µl of untransformed NEBExpress[®] Iq 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>	Pass

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

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Lixin An
Production Scientist
12 Sep 2022



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Packaging Quality Control Inspector
12 Sep 2022