

## New England Biolabs Certificate of Analysis

**Product Name:** NEB<sup>®</sup> Express Iq Competent *E. coli* (High Efficiency)  
**Catalog #:** C3037H/I  
**Lot #:** 0061611  
**Assay Date:** 11/2016  
**Expiration Date:** 11/2018  
**Storage Temp:** -80°C  
**Specification Version:** PS-C3037I v1.0  
**Effective Date:** 07 Jul 2016

Assay Name/Specification (minimum release criteria)	Lot #0061611
<b>Antibiotic Resistance (Chloramphenicol)</b> - 15 µl of untransformed NEB <sup>®</sup> Express 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.	<b>Pass</b>
<b>Antibiotic Resistance (Nitrofurantoin)</b> - 15 µl of untransformed NEB <sup>®</sup> Express 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.	<b>Pass</b>
<b>Antibiotic Sensitivity (Ampicillin)</b> - 15 µl of untransformed NEB <sup>®</sup> Express 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.	<b>Pass</b>
<b>Antibiotic Sensitivity (Kanamycin)</b> - 15 µl of untransformed NEB <sup>®</sup> Express 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.	<b>Pass</b>
<b>Antibiotic Sensitivity (Spectinomycin)</b> - 15 µl of untransformed NEB <sup>®</sup> Express Iq 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.	<b>Pass</b>
<b>Antibiotic Sensitivity (Streptomycin)</b> - 15 µl of untransformed NEB <sup>®</sup> Express 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.	<b>Pass</b>
<b>Antibiotic Sensitivity (Tetracycline)</b> - 15 µl of untransformed NEB <sup>®</sup> Express Iq 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.	<b>Pass</b>



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<p><b>Phage Resistance (Φ 80)</b> - 15 µl of untransformed NEB® Express Iq 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>	<b>Pass</b>
<p><b>Transformation Efficiency</b> - 50 µl of NEB® Express Iq 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 &gt;0.6 x 10e9 cfu/µg of DNA.</p>	<b>Pass</b>



Authorized by  
Derek Robinson  
07 Jul 2016



Inspected by  
Lixin An  
14 Nov 2016

