

## New England Biolabs Product Specification

*Product Name:* NEB<sup>®</sup> Express Iq Competent *E. coli* (High Efficiency)  
*Catalog #:* C3037I  
*Shelf Life:* 24 months  
*Storage Temp:* -80°C  
*Specification Version:* PS-C3037I v1.0  
*Effective Date:* 04 Apr 2016

### Assay Name/Specification (minimum release criteria)

**Antibiotic Resistance (Chloramphenicol)** - 15 µl of untransformed NEB<sup>®</sup> Express Iq Competent *E. coli* (High Efficiency) streaked onto a Rich Broth plate containing Chloramphenicol will form colonies after incubation for 16 hours at 37°C.

**Antibiotic Resistance (Nitrofurantoin)** - 15 µl of untransformed NEB<sup>®</sup> Express Iq Competent *E. coli* (High Efficiency) streaked onto a Rich Broth plate containing Nitrofurantoin will form colonies after incubation for 16 hours at 37°C.

**Antibiotic Sensitivity (Ampicillin)** - 15 µl of untransformed NEB<sup>®</sup> Express Iq 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.

**Antibiotic Sensitivity (Kanamycin)** - 15 µl of untransformed NEB<sup>®</sup> Express Iq 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.

**Antibiotic Sensitivity (Spectinomycin)** - 15 µl of untransformed NEB<sup>®</sup> Express 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.

**Antibiotic Sensitivity (Streptomycin)** - 15 µl of untransformed NEB<sup>®</sup> Express Iq 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.

**Antibiotic Sensitivity (Tetracycline)** - 15 µl of untransformed NEB<sup>®</sup> Express 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.

**Phage Resistance (Φ 80)** - 15 µl of untransformed NEB<sup>®</sup> Express 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.

**Transformation Efficiency** - 50 µl of NEB<sup>®</sup> Express 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 10<sup>e9</sup> cfu/µg of DNA.



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Director of Quality Control

