NEW ENGLAND BioLabs Inc.

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New England Biolabs
Certificate of Analysis

Product Name: *NEB® Turbo Competent E. coli (High Efficiency)*
Catalog #: *C2984H/I*
Lot #: *1601612*
Assay Date: *12/2016*
Expiration Date: *12/2017*
Storage Temp: *-80°C*
Specification Version: *PS-C2984H/I v1.0*
Effective Date: *22 Dec 2016*

Assay Name/Specification (minimum release criteria)	**Lot #1601612**
Antibiotic Resistance (Nitrofurantoin) - 15 µl of untransformed NEB® Turbo Competent *E. coli* (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 NEB® Turbo 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.	**Pass**
Antibiotic Sensitivity (Chloramphenicol) - 15 µl of untransformed NEB® Turbo 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.	**Pass**
Antibiotic Sensitivity (Kanamycin) - 15 µl of untransformed NEB® Turbo 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.	**Pass**
Antibiotic Sensitivity (Spectinomycin) - 15 µl of untransformed NEB® Turbo 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.	**Pass**
Antibiotic Sensitivity (Streptomycin) - 15 µl of untransformed NEB® Turbo 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.	**Pass**
Antibiotic Sensitivity (Tetracycline) - 15 µl of untransformed NEB® Turbo 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.	**Pass**

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Assay Name/Specification (minimum release criteria)	**Lot #1601612**
Blue-White Screening (α-complementation, Competent Cells) - NEB® Turbo Competent *E. coli* (High Efficiency) were shown to be suitable for blue/white screening by α-complementation of the β-galactosidase gene using pUC19.	**Pass**
Phage Resistance (Φ 80) - 15 µl of untransformed NEB® Turbo 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.	**Pass**
Transformation Efficiency - 50 µl of NEB® Turbo 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 >1 x 10e9 cfu/µg of DNA.	**Pass**

Authorized by
Lixin An
22 Dec 2016

Inspected by

ISO 9001 Registered Quality Management
ISO 14001 Registered Environmental Management
ISO 13485 Registered Medical Devices