NEW ENGLAND BioLabs® Inc.

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New England Biolabs
Certificate of Analysis

Product Name: *NEB® Turbo Electrocompetent E. coli*
Catalog #: *C2986K*
Lot #: *0231707*
Assay Date: *07/2017*
Expiration Date: *07/2018*
Storage Temp: *-80°C*
Specification Version: *PS-C2986K v1.0*
Effective Date: *24 Apr 2017*

Assay Name/Specification (minimum release criteria)	**Lot #0231707**
Antibiotic Resistance (Nitrofurantoin) - 15 µl of untransformed NEB® Turbo Electrocompetent *E. coli* streaked onto a LB or 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 Electrocompetent *E. coli* streaked onto a LB or 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 Electrocompetent *E. coli* streaked onto a LB or 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 Electrocompetent *E. coli* streaked onto a LB or 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 Electrocompetent *E. coli* streaked onto a LB or 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 Electrocompetent *E. coli* streaked onto a LB or 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 Electrocompetent *E. coli* streaked onto a LB or Rich Broth plate containing Tetracycline will not form colonies after incubation for 16 hours at 37° C.	**Pass**
Blue-White Screening (α-complementation, Competent Cells) - NEB® Turbo Electrocompetent *E. coli* were shown to be suitable for blue/white screening by α-complementation of the β-galactosidase gene using pUC19.	**Pass**

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Assay Name/Specification (minimum release criteria)	**Lot #0231707**
Phage Resistance (Φ 80) - 15 µl of untransformed NEB® Turbo Electrocompetent *E. coli* 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 - 25 µl of NEB® Turbo Electrocompetent *E. coli* cells were transformed with 10 pg of pUC19 DNA using the transformation protocol provided. Incubation overnight on LB-Ampicillin plates at 37° C resulted in >1 x 10e10 cfu/µg of DNA.	**Pass**

Authorized by
Derek Robinson
24 Apr 2017

Inspected by
Quiting Ren
26 Jul 2017

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