NEW ENGLAND BioLabs Inc.

240 County Road
Ipswich, MA 01938-2723

Tel 978-927-5054
Fax 978-921-1350

www.neb.com
info@neb.com

New England Biolabs
Certificate of Analysis

Product Name: *NEB® 5-alpha F'Iq Competent E. coli (High Efficiency)*
Catalog #: *C2992H/I*
Lot #: *1331801*
Assay Date: *01/2018*
Expiration Date: *01/2019*
Storage Temp: *-80°C*
Specification Version: *PS-C2992H/I v1.0*
Effective Date: *20 Jan 2017*

Assay Name/Specification (minimum release criteria)	**Lot #1331801**
Antibiotic Resistance (Tetracycline) - 15 µl of untransformed NEB® 5-alpha F'Iq Competent *E. coli* (High Efficiency) streaked onto a Rich Broth plate containingTetracycline will form colonies after incubation for 16 hours at 37°C.	**Pass**
Antibiotic Sensitivity (Ampicillin) - 15 µl of untransformed NEB® 5-alpha F'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.	**Pass**
Antibiotic Sensitivity (Chloramphenicol) - 15 µl of untransformed NEB® 5-alpha F'Iq 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® 5-alpha F'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.	**Pass**
Antibiotic Sensitivity (Nitrofurantoin) - 15 µl of untransformed NEB® 5-alpha F'Iq Competent *E. coli* (High Efficiency) streaked onto a Rich Broth plate containing Nitrofurantoin will not form colonies after incubation for 16 hours at 37°C.	**Pass**
Antibiotic Sensitivity (Spectinomycin) - 15 µl of untransformed NEB® 5-alpha F'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.	**Pass**
Antibiotic Sensitivity (Streptomycin) - 15 µl of untransformed NEB® 5-alpha F'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.	**Pass**

NEW ENGLAND BioLabs Inc.

240 County Road
Ipswich, MA 01938-2723

Tel 978-927-5054
Fax 978-921-1350

www.neb.com
info@neb.com

New England Biolabs
Certificate of Analysis

Assay Name/Specification (minimum release criteria)	**Lot #1331801**
Blue-White Screening (α-complementation, Competent Cells) - NEB® 5-alpha F'Iq 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® 5-alpha F'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.	**Pass**
Transformation Efficiency - 50 µl of NEB® 5-alpha F'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 >1 x 10e9 cfu/µg of DNA.	**Pass**

Authorized by
Derek Robinson
20 Jan 2017

Inspected by
Lixin An
18 Jan 2018

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