

New England Biolabs Certificate of Analysis

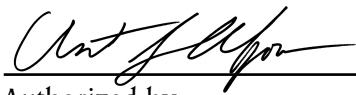
Product Name: NEB[®] 5-alpha Competent *E. coli* (High Efficiency)
Catalog #: C2987H/I
Lot #: 6011804
Assay Date: 04/2018
Expiration Date: 04/2019
Storage Temp: -80°C
Specification Version: PS-C2987H/I v1.0
Effective Date: 30 Mar 2018

| Assay Name/Specification (minimum release criteria) | Lot #6011804 |
|--|--------------|
| Antibiotic Sensitivity (Ampicillin) - 15 µl of untransformed NEB [®] 5-alpha 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. | Pass |
| Antibiotic Sensitivity (Chloramphenicol) - 15 µl of untransformed NEB [®] 5-alpha Competent <i>E. coli</i> (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 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. | Pass |
| Antibiotic Sensitivity (Nitrofurantoin) - 15 µl of untransformed NEB [®] 5-alpha Competent <i>E. coli</i> (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 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. | Pass |
| Antibiotic Sensitivity (Streptomycin) - 15 µl of untransformed NEB [®] 5-alpha 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. | Pass |
| Antibiotic Sensitivity (Tetracycline) - 15 µl of untransformed NEB [®] 5-alpha 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. | Pass |

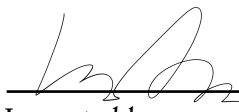


New England Biolabs Certificate of Analysis

| Assay Name/Specification (minimum release criteria) | Lot #6011804 |
|--|--------------|
| <p>Blue-White Screening (α-complementation, Competent Cells) - NEB[®] 5-alpha Competent <i>E. coli</i> (High Efficiency) were shown to be suitable for blue/white screening by α-complementation of the β-galactosidase gene using pUC19.</p> | Pass |
| <p>Phage Resistance (Φ 80) - 15 μl of untransformed NEB[®] 5-alpha 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> | Pass |
| <p>Transformation Efficiency - 50 μl of NEB[®] 5-alpha 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 $>1 \times 10^9$ cfu/μg of DNA.</p> | Pass |



Authorized by
Tony Spear-Alfonso
30 Mar 2018



Inspected by
Lixin An
10 Apr 2018

