

New England Biolabs Certificate of Analysis

Product Name: NEB[®] Stable Competent *E. coli* (High Efficiency)
Catalog #: C3040H/I
Lot #: 0471701
Assay Date: 01/2017
Expiration Date: 01/2018
Storage Temp: -80°C
Specification Version: PS-C3040H/I v1.0
Effective Date: 18 Jan 2017

| Assay Name/Specification (minimum release criteria) | Lot #0471701 |
|---|--------------|
| Antibiotic Resistance (Streptomycin) - 15 µl of untransformed NEB [®] Stable Competent <i>E. coli</i> (High Efficiency) streaked onto a Rich Broth plate containing Streptomycin will form colonies after incubation for 16 hours at 37°C. | Pass |
| Antibiotic Resistance (Tetracycline) - 15 µl of untransformed NEB [®] Stable Competent <i>E. coli</i> (High Efficiency) streaked onto a Rich Broth plate containing Tetracycline will form colonies after incubation for 16 hours at 37°C. | Pass |
| Antibiotic Sensitivity (Ampicillin) - 15 µl of untransformed NEB [®] Stable 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 [®] Stable 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 [®] Stable 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 [®] Stable 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 [®] Stable 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 |



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| Blue-White Screening (α-complementation, Competent Cells) - NEB [®] Stable 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. | Pass |
| Phage Resistance (Φ 80) - 15 μ l of untransformed NEB [®] Stable 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. | Pass |
| Transformation Efficiency - 50 μ l of NEB [®] Stable 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/ μ g of DNA. | Pass |



Authorized by
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18 Jan 2017



Inspected by
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17 Feb 2017

