

New England Biolabs Certificate of Analysis


Product Name: NEB® 5-alpha Competent *E. coli* (Subcloning Efficiency)
Catalog Number: C2988J
Lot Number: 10022958
Expiration Date: 08/2019
Storage Temperature: -80°C
Specification Version: PS-C2988J v1.0

| NEB® 5-alpha Competent <i>E. coli</i> (Subcloning Efficiency) Component List | | | |
|--|---|------------|----------------------|
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| C2988JVIAL | NEB® 5-alpha Competent <i>E. coli</i> (Subcloning Efficiency) | 10009126 | Pass |

| Assay Name/Specification | Lot # 10022958 |
|---|----------------|
| Antibiotic Sensitivity (Ampicillin) 15 µl of untransformed NEB® 5-alpha Competent <i>E. coli</i> (Subcloning 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> (Subcloning 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> (Subcloning 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> (Subcloning 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> (Subcloning Efficiency) streaked onto a Rich Broth plate containing Spectinomycin will not form colonies after incubation for 16 hours at 37°C. | Pass |

| Assay Name/Specification | Lot # 10022958 |
|--|----------------|
| <p>Antibiotic Sensitivity (Streptomycin) 15 µl of untransformed NEB® 5-alpha Competent E. coli (Subcloning Efficiency) streaked onto a Rich Broth plate containing Streptomycin will not form colonies after incubation for 16 hours at 37°C.</p> | Pass |
| <p>Antibiotic Sensitivity (Tetracycline) 15 µl of untransformed NEB® 5-alpha Competent E. coli (Subcloning Efficiency) streaked onto a Rich Broth plate containing Tetracycline will not form colonies after incubation for 16 hours at 37°C.</p> | Pass |
| <p>Blue-White Screening (α-complementation, Competent Cells) NEB® 5-alpha Competent E. coli (Subcloning 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 E. coli (Subcloning 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 E. coli (Subcloning 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 10e6 cfu/µg of DNA.</p> | Pass |

This product has been tested and shown to be in compliance with all specifications.



Lixin An
Production Scientist
18 May 2018



Corey Rabeau
Packaging Quality Control Inspector
19 Sep 2018