

New England Biolabs Certificate of Analysis

Product Name: NEB® 5-alpha F Iq Competent *E. coli* (High Efficiency)
Catalog Number: C2992H
Packaging Lot Number: 10177388
Expiration Date: 12/2023
Storage Temperature: -80°C
Specification Version: PS-C2992H/I v1.0

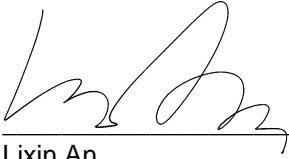
| NEB® 5-alpha F Iq Competent <i>E. coli</i> (High Efficiency) Component List | | | |
|---|--|------------|----------------------|
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| N3041AVIAL | pUC19 Vector | 10173306 | Pass |
| C2992HVIAL | NEB® 5-alpha F Iq Competent <i>E. coli</i> (High Efficiency) | 10165776 | Pass |
| B9020SVIAL | SOC Outgrowth Medium | 10166768 | Pass |

| Assay Name/Specification | Lot # 10177388 |
|--|----------------|
| Antibiotic Sensitivity (Ampicillin) 15 µl of untransformed NEB® 5-alpha F'Iq 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 F'Iq 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 Resistance (Tetracycline) 15 µl of untransformed NEB® 5-alpha F'Iq 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 (Spectinomycin) 15 µl of untransformed NEB® 5-alpha F'Iq 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 F'Iq Competent <i>E. coli</i> (High Efficiency) | Pass |

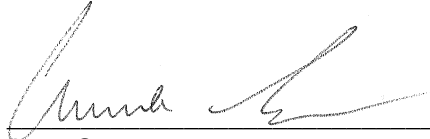
| Assay Name/Specification | Lot # 10177388 |
|---|----------------|
| <p>streaked onto a Rich Broth plate containing Streptomycin will not form colonies after incubation for 16 hours at 37°C.</p> | |
| <p>Antibiotic Sensitivity (Nitrofurantoin) 15 µl of untransformed NEB® 5-alpha F'Iq Competent E. coli (High Efficiency) streaked onto a Rich Broth plate containing Nitrofurantoin will not form colonies after incubation for 16 hours at 37°C.</p> | Pass |
| <p>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.</p> | Pass |
| <p>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.</p> | Pass |
| <p>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.</p> | Pass |
| <p>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.</p> | Pass |

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

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Production Scientist
07 Oct 2022



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12 Jan 2023