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## New England Biolabs Certificate of Analysis

Product Name: NEB® Stable Competent E. coli (High Efficiency)

Catalog Number: C3040I
Packaging Lot Number: 10159660
Expiration Date: 07/2023
Storage Temperature: -80°C

Specification Version: PS-C3040H/I v1.0

| NEB® Stable Competent E. coli (High Efficiency) Component List |                                                 |            |                      |  |
|----------------------------------------------------------------|-------------------------------------------------|------------|----------------------|--|
| <b>NEB Part Number</b>                                         | Component Description                           | Lot Number | Individual QC Result |  |
| N3041AVIAL                                                     | pUC19 Vector                                    | 10152456   | Pass                 |  |
| C3040IVIAL                                                     | NEB® Stable Competent E. coli (High Efficiency) | 10144875   | Pass                 |  |
| B9035SVIAL                                                     | NEB® 10-beta/Stable Outgrowth Medium            | 10151821   | Pass                 |  |

| Assay Name/Specification                                                                                                                                                                                                                                                 | Lot # 10159660 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Blue-White Screening (α-complementation, Competent Cells) NEB® Stable 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® Stable 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® Stable 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           |
| Antibiotic Sensitivity (Ampicillin) 15 µl of untransformed NEB® Stable 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® Stable 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           |



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| Assay Name/Specification                                                                                                                                                                                                                 | Lot # 10159660 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Antibiotic Resistance (Tetracycline) 15 µl of untransformed NEB® Stable 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 Resistance (Streptomycin)  15 µl of untransformed NEB® Stable Competent E. coli (High Efficiency) streaked onto a Rich Broth plate containing Streptomycin will form colonies after incubation for 16 hours at 37°C.          | Pass           |
| Antibiotic Sensitivity (Spectinomycin) 15 µl of untransformed NEB® Stable 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 (Kanamycin) 15 µl of untransformed NEB® Stable 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® Stable 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           |

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

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Lixin An

**Production Scientist** 

27 Jul 2022

Nick Privitera

Packaging Quality Control Inspector

27 Jul 2022



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