

## New England Biolabs Certificate of Analysis

**Product Name:** NEB® Stable Competent *E. coli* (High Efficiency)  
**Catalog Number:** C3040H  
**Packaging Lot Number:** 10087264  
**Expiration Date:** 10/2021  
**Storage Temperature:** -80°C  
**Specification Version:** PS-C3040H/I v1.0

| NEB® Stable Competent <i>E. coli</i> (High Efficiency) Component List |  |            |                      |
|---|--|------------|----------------------|
| NEB Part Number   | Component Description                                  | Lot Number | Individual QC Result |
| N3041AVIAL  | pUC19 Vector   | 10082933   | Pass                 |
| C3040HVIAL  | NEB® Stable Competent <i>E. coli</i> (High Efficiency) | 10083490   | Pass                 |
| B9035SVIAL  | NEB® 10-beta/Stable Outgrowth Medium                   | 10079003   | Pass                 |

| Assay Name/Specification   | Lot # 10087264 |
|--|----------------|
| <b>Antibiotic Resistance (Streptomycin)</b><br>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.            | <b>Pass</b>    |
| <b>Antibiotic Resistance (Tetracycline)</b><br>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.            | <b>Pass</b>    |
| <b>Antibiotic Sensitivity (Ampicillin)</b><br>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.           | <b>Pass</b>    |
| <b>Antibiotic Sensitivity (Chloramphenicol)</b><br>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. | <b>Pass</b>    |
| <b>Antibiotic Sensitivity (Kanamycin)</b><br>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                               | <b>Pass</b>    |

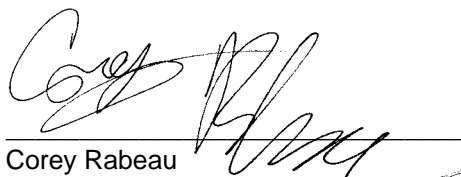
| Assay Name/Specification   | Lot # 10087264 |
|--|----------------|
| 16 hours at 37°C.  |                |
| <b>Antibiotic Sensitivity (Nitrofurantoin)</b><br>15 µl of untransformed NEB® Stable Competent E. coli (High Efficiency) streaked onto a Rich Broth plate containing Nitrofurantoin will not form colonies after incubation for 16 hours at 37°C.                                  | <b>Pass</b>    |
| <b>Antibiotic Sensitivity (Spectinomycin)</b><br>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.                                    | <b>Pass</b>    |
| <b>Blue-White Screening (α-complementation, Competent Cells)</b><br>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.   | <b>Pass</b>    |
| <b>Phage Resistance (φ 80)</b><br>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.   | <b>Pass</b>    |
| <b>Transformation Efficiency</b><br>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. | <b>Pass</b>    |

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

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