

be INSPIRED drive DISCOVERY stay GENUINE

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

| Product Name: | NEB® Stable Competent E. coli (High Efficiency) |
|------------------------|---|
| Catalog Number: | С3040Н |
| Lot Number: | 10054915 |
| Expiration Date: | 08/2020 |
| Storage Temperature: | -80°C |
| Specification Version: | PS-C3040H/I v1.0 |

| NEB® Stable Competent E. coli (High Efficiency) Component List | | | | |
|--|---|------------|----------------------|--|
| NEB Part Number | Component Description | Lot Number | Individual QC Result | |
| N3041AVIAL | pUC19 Vector | 10047676 | Pass | |
| C3040HVIAL | NEB® Stable Competent E. coli (High Efficiency) | 10047822 | Pass | |
| B9035SVIAL | NEB® 10-beta/Stable Outgrowth Medium | 10048132 | Pass | |

| Assay Name/Specification | Lot # 10054915 |
|--|----------------|
| 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 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 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 |





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| Assay Name/Specification | Lot # 10054915 |
|---|----------------|
| 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 |
| 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 |
| 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 |

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

Lixin An Production Scientist 18 Jul 2019

Corey Rabeau

Packaging Quality Control Inspector 05 Sep 2019

