

*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® 5-alpha Competent E. coli (High Efficiency) |
|------------------------|--|
| Catalog Number:        | C2987I   |
| Packaging Lot Number:  | 10067641   |
| Expiration Date:       | 01/2021  |
| Storage Temperature:   | -80°C  |
| Specification Version: | PS-C2987H/I v1.0                                 |

| NEB® 5-alpha Competent E. coli (High Efficiency) Component List |  |            |                      |  |
|---|--|------------|----------------------|--|
| NEB Part Number   | Component Description                            | Lot Number | Individual QC Result |  |
| N3041AVIAL  | pUC19 Vector                                     | 10064269   | Pass                 |  |
| C2987IVIAL  | NEB® 5-alpha Competent E. coli (High Efficiency) | 10061202   | Pass                 |  |
| B9020SVIAL  | SOC Outgrowth Medium                             | 10058395   | Pass                 |  |

| Assay Name/Specification  | Lot # 10067641 |
|---|----------------|
| Antibiotic Sensitivity (Ampicillin)<br>15 µl of untransformed NEB® 5-alpha Competent E. coli (High Efficiency) streaked<br>onto a Rich Broth plate containing Ampicillin will not form colonies after<br>incubation for 16 hours at 37°C.           | Pass           |
| Antibiotic Sensitivity (Chloramphenicol)<br>15 µl of untransformed NEB® 5-alpha Competent E. coli (High Efficiency) streaked<br>onto a Rich Broth plate containing Chloramphenicol will not form colonies after<br>incubation for 16 hours at 37°C. | Pass           |
| Antibiotic Sensitivity (Kanamycin)<br>15 µl of untransformed NEB® 5-alpha Competent E. coli (High Efficiency) streaked<br>onto a Rich Broth plate containing Kanamycin will not form colonies after incubation<br>for 16 hours at 37°C.             | Pass           |
| Antibiotic Sensitivity (Nitrofurantoin)<br>15 µl of untransformed NEB® 5-alpha Competent E. coli (High Efficiency) streaked<br>onto a Rich Broth plate containing Nitrofurantoin will not form colonies after<br>incubation for 16 hours at 37°C.   | Pass           |
| Antibiotic Sensitivity (Spectinomycin)<br>15 µl of untransformed NEB® 5-alpha Competent E. coli (High Efficiency) streaked<br>onto a Rich Broth plate containing Spectinomycin will not form colonies after   | Pass           |





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| Assay Name/Specification  | Lot # 10067641 |
|---|----------------|
| incubation for 16 hours at 37°C.  |                |
| Antibiotic Sensitivity (Streptomycin)<br>15 µl of untransformed NEB® 5-alpha Competent E. coli (High Efficiency) streaked<br>onto a Rich Broth plate containing Streptomycin will not form colonies after<br>incubation for 16 hours at 37°C.   | Pass           |
| Antibiotic Sensitivity (Tetracycline)<br>15 µl of untransformed NEB® 5-alpha Competent E. coli (High Efficiency) streaked<br>onto a Rich Broth plate containing Tetracycline will not form colonies after<br>incubation for 16 hours at 37°C.   | Pass           |
| Blue-White Screening ( $\alpha$ -complementation, Competent Cells)<br>NEB® 5-alpha Competent E. coli (High Efficiency) were shown to be suitable for<br>blue/white screening by $\alpha$ -complementation of the $\beta$ -galactosidase gene using pUC19.                                 | Pass           |
| <b>Phage Resistance (<math>\phi</math> 80)</b><br>15 µl of untransformed NEB® 5-alpha Competent E. coli (High Efficiency) streaked<br>onto a Rich Broth plate does not support plaque formation by phage $\phi$ 80 after<br>incubation for 16 hours at 37°C.                              | Pass           |
| <b>Transformation Efficiency</b><br>50 µl of NEB® 5-alpha Competent E. coli (High Efficiency) cells were transformed<br>with 100 pg of pUC19 DNA using the transformation protocol provided. Incubation<br>overnight on LB-Ampicillin plates at 37°C resulted in >1 x 10e9 cfu/µg of DNA. | Pass           |

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

Lixin An Production Scientist 20 Dec 2019

Corey Rabeau

Packaging Quality Control Inspector 14 Feb 2020



C2987I / Lot: 10067641 Page 2 of 2