

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

| NEB® 5-alpha Competent E. coli (High Efficiency) |
|--|
| C2987H/I   |
| 5081707  |
| 07/2017  |
| 07/2018  |
| -80°C  |
| PS-C2987H/I v1.0                                 |
| 13 Dec 2016                                      |
|  |

| Assay Name/Specification (minimum release criteria)   | Lot #5081707 |
|---|--------------|
| <b>Antibiotic Sensitivity (Ampicillin)</b> - 15 $\mu$ l of untransformed NEB® 5-alpha 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         |
| <b>Antibiotic Sensitivity (Chloramphenicol)</b> - 15 $\mu$ l of untransformed NEB® 5-alpha 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         |
| <b>Antibiotic Sensitivity (Kanamycin)</b> - 15 μl of untransformed NEB® 5-alpha Competent <i>E. coli</i> (High Efficiency) streaked onto a Rich Broth plate containing Kanamycin will not form colonies after incubation for 16 hours at 37°C.                  | Pass         |
| <b>Antibiotic Sensitivity (Nitrofurantoin)</b> - 15 $\mu$ l of untransformed NEB® 5-alpha Competent <i>E. coli</i> (High Efficiency) streaked onto a Rich Broth plate containing Nitrofurantoin will not form colonies after incubation for 16 hours at 37°C.   | Pass         |
| <b>Antibiotic Sensitivity (Spectinomycin)</b> - 15 $\mu$ l of untransformed NEB® 5-alpha 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         |
| <b>Antibiotic Sensitivity (Streptomycin)</b> - 15 µl of untransformed NEB® 5-alpha Competent <i>E. coli</i> (High Efficiency) streaked onto a Rich Broth plate containing Streptomycin will not form colonies after incubation for 16 hours at 37°C.            | Pass         |
| <b>Antibiotic Sensitivity (Tetracycline)</b> - 15 $\mu$ l of untransformed NEB® 5-alpha Competent <i>E. coli</i> (High Efficiency) streaked onto a Rich Broth plate containing Tetracycline will not form colonies after incubation for 16 hours at 37°C.       | Pass         |



C2987H/I Lot: 5081707 Page 1 of 2



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

| Assay Name/Specification (minimum release criteria)  | Lot #5081707 |
|--|--------------|
| <b>Blue-White Screening (<math>\alpha</math>-complementation, Competent Cells)</b> - NEB® 5-alpha Competent <i>E. coli</i> (High Efficiency) were shown to be suitable for blue/white screening by $\alpha$ -complementation of the $\beta$ -galactosidase gene using pUC19.                         | Pass         |
| <b>Phage Resistance (<math>\Phi</math> 80)</b> - 15 µl of untransformed NEB® 5-alpha Competent <i>E. coli</i> (High Efficiency) streaked onto a Rich Broth plate does not support plaque formation by phage $\Phi$ 80 after incubation for 16 hours at 37°C.   | Pass         |
| <b>Transformation Efficiency</b> - 50 $\mu$ l of NEB® 5-alpha Competent <i>E. coli</i> (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/ $\mu$ g of DNA. | Pass         |

otunen

Authorized by Derek Robinson 13 Dec 2016



Inspected by Lixin An 20 Jul 2017