

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: | C2987R |
| Packaging Lot Number: | 10142258 |
| Expiration Date: | 09/2023 |
| Storage Temperature: | -80°C |
| Specification Version: | PS-C2987R v3.0 |

| NEB® 5-alpha Competent E. coli (High Efficiency) Component List | | | | |
|---|--|------------|----------------------|--|
| NEB Part Number | Component Description | Lot Number | Individual QC Result | |
| N3041AVIAL | pUC19 Vector | 10129358 | Pass | |
| C2987RVIAL | NEB® 5-alpha Competent E. coli (High Efficiency) | 10013617 | Pass | |
| B9040AVIAL | Outgrowth Medium 1.5 | 10122945 | Pass | |

| Assay Name/Specification | Lot # 10142258 |
|--|----------------|
| Antibiotic Sensitivity (Tetracycline) 15 μl of untransformed NEB® 5-alpha Competent E. coli (High Efficiency) streaked onto a Rich Broth plate containing Tetracycline will not form colonies after incubation for 16 hours at 37°C. | Pass |
| Antibiotic Sensitivity (Nitrofurantoin) 15 µl of untransformed NEB® 5-alpha 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 |
| Phage Resistance (ϕ 80) 15 µl of untransformed NEB® 5-alpha 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 |
| Blue-White Screening (α -complementation, Competent Cells) NEB® 5-alpha 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 |
| Transformation Efficiency 1 well of NEB® 5-alpha 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 10e8 cfu/ μ g of DNA. | Pass |





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| Assay Name/Specification | Lot # 10142258 |
|--|----------------|
| Antibiotic Sensitivity (Kanamycin) 15 μ I of untransformed NEB® 5-alpha 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 (Chloramphenicol) 15 μl of untransformed NEB® 5-alpha 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 (Ampicillin) 15 µl of untransformed NEB® 5-alpha 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 (Streptomycin) 15 µl of untransformed NEB® 5-alpha Competent E. coli (High Efficiency) streaked onto a Rich Broth plate containing Streptomycin will not form colonies after incubation for 16 hours at 37°C. | Pass |
| Antibiotic Sensitivity (Spectinomycin) 15 µl of untransformed NEB® 5-alpha 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.

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Lixin An Production Scientist 18 Feb 2022

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Nick Privitera Packaging Quality Control Inspector 18 Feb 2022



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