

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: 10160870
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	10152456	Pass	
C2987RVIAL	NEB® 5-alpha Competent E. coli (High Efficiency)	10013617	Pass	
B9040AVIAL	Outgrowth Medium 1.5	10158498	Pass	

Assay Name/Specification	Lot # 10160870
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 (Kanamycin) 15 µl 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 (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
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 (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	Pass



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Assay Name/Specification	Lot # 10160870
ncubation for 16 hours at 37°C.	
Phage Resistance (φ 80) 5 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 ncubation for 16 hours at 37°C.	Pass
lue-White Screening (α-complementation, Competent Cells) EB® 5-alpha Competent E. coli (High Efficiency) were shown to be suitable for ue/white screening by α-complementation of the β-galactosidase gene using pUC19.	Pass
ransformation Efficiency 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 vernight on LB-Ampicillin plates at 37°C resulted in >1 x 10e8 cfu/µg of DNA.	Pass
Antibiotic Sensitivity (Ampicillin) 5 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 (Spectinomycin) 5 µl of untransformed NEB® 5-alpha Competent E. coli (High Efficiency) streaked onto a Rich Broth plate containing Spectinomycin will not form colonies after neubation for 16 hours at 37°C.	Pass

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

Lixin An

Production Scientist

01 Aug 2022

Nick Privitera

Packaging Quality Control Inspector

01 Aug 2022



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