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## New England Biolabs Certificate of Analysis

Product Name: NEB® 5-alpha Competent E. coli (High Efficiency)

Catalog Number: C2987U
Packaging Lot Number: 10108327
Expiration Date: 03/2022
Storage Temperature: -80°C

Specification Version: PS-C2987U v2.0

NEB® 5-alpha Competent E. coli (High Efficiency) Component List					
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result		
N3041AVIAL	pUC19 Vector	10103254	Pass		
C2987UVIAL	NEB® 5-alpha Competent E. coli (High Efficiency)	10092521	Pass		
B9020SVIAL	SOC Outgrowth Medium	10093865	Pass		

Assay Name/Specification	Lot # 10108327
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 (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 (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 (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 (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	Pass



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**Pass** 

**Pass** 

Assay Name/Specification	Lot # 10108327
ncubation for 16 hours at 37°C.	
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
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
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	Pass

Phage	Resista	псе (ф	80)

15  $\mu$ I of untransformed NEB® 5-alpha Competent E. coli (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.

overnight on LB-Ampicillin plates at 37°C resulted in >1 x 10e9 cfu/µg of DNA.

## 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  $\alpha$ -complementation of the  $\beta$ -galactosidase gene using pUC19.

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

29 Apr 2021

Nick Privitera

Packaging Quality Control Inspector

29 Apr 2021



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