

New England Biolabs Certificate of Analysis

Product Name: NEB® 5-alpha F Iq Competent *E. coli* (High Efficiency)
Catalog Number: C2992H
Packaging Lot Number: 10066978
Expiration Date: 01/2021
Storage Temperature: -80°C
Specification Version: PS-C2992H/I v1.0

NEB® 5-alpha F Iq Competent <i>E. coli</i> (High Efficiency) Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N3041AVIAL	pUC19 Vector	10058192	Pass
C2992HVIAL	NEB® 5-alpha F Iq Competent <i>E. coli</i> (High Efficiency)	10058073	Pass
B9020SVIAL	SOC Outgrowth Medium	10058394	Pass

Assay Name/Specification	Lot # 10066978
Antibiotic Sensitivity (Nitrofurantoin) 15 µl of untransformed NEB® 5-alpha F Iq 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
Antibiotic Sensitivity (Ampicillin) 15 µl of untransformed NEB® 5-alpha F Iq 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
Antibiotic Sensitivity (Chloramphenicol) 15 µl of untransformed NEB® 5-alpha F Iq 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
Antibiotic Sensitivity (Kanamycin) 15 µl of untransformed NEB® 5-alpha F Iq 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
Antibiotic Resistance (Tetracycline) 15 µl of untransformed NEB® 5-alpha F Iq Competent <i>E. coli</i> (High Efficiency)	Pass

Assay Name/Specification	Lot # 10066978
<p>streaked onto a Rich Broth plate containing Tetracycline will form colonies after incubation for 16 hours at 37°C.</p>	
<p>Antibiotic Sensitivity (Spectinomycin) 15 µl of untransformed NEB® 5-alpha F'Iq 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.</p>	Pass
<p>Blue-White Screening (α-complementation, Competent Cells) NEB® 5-alpha F'Iq Competent E. coli (High Efficiency) were shown to be suitable for blue/white screening by α-complementation of the β-galactosidase gene using pUC19.</p>	Pass
<p>Antibiotic Sensitivity (Streptomycin) 15 µl of untransformed NEB® 5-alpha F'Iq 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.</p>	Pass
<p>Phage Resistance (φ 80) 15 µl of untransformed NEB® 5-alpha F'Iq 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.</p>	Pass
<p>Transformation Efficiency 50 µl of NEB® 5-alpha F'Iq 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 10⁹ cfu/µg of DNA.</p>	Pass

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



Lixin An
Production Scientist
25 Oct 2019



Corey Rabeau
Packaging Quality Control Inspector
03 Feb 2020