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New England Biolabs Certificate of Analysis

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

Catalog Number: C2992H
Lot Number: 10024310
Expiration Date: 10/2019
Storage Temperature: -80°C

Specification Version: PS-C2992H/I v1.0

NEB® 5-alpha F Iq Competent E. coli (High Efficiency) Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
N3041AVIAL	pUC19 Vector	10017063	Pass	
C2992HVIAL	NEB® 5-alpha F Iq Competent E. coli (High Efficiency)	10014820	Pass	
B9020SVIAL	SOC Outgrowth Medium	10011188	Pass	

Assay Name/Specification	Lot # 10024310
Antibiotic Sensitivity (Kanamycin) 15 µl of untransformed NEB® 5-alpha F'lq 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 F'lq 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 (Spectinomycin) 15 µl of untransformed NEB® 5-alpha F'lq 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 (Streptomycin) 15 µl of untransformed NEB® 5-alpha F'lq 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
Blue-White Screening (α-complementation, Competent Cells) NEB® 5-alpha F'lq Competent E. coli (High Efficiency) were shown to be suitable for	Pass



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Assay Name/Specification	Lot # 10024310
blue/white screening by α -complementation of the β -galactosidase gene using pUC19.	
Phage Resistance (φ 80) 15 μl of untransformed NEB® 5-alpha F'lq 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
Transformation Efficiency 50 µl of NEB® 5-alpha F'lq 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 10e9 cfu/µg of DNA.	Pass
Antibiotic Resistance (Tetracycline) 15 µl of untransformed NEB® 5-alpha F'lq Competent E. coli (High Efficiency) streaked onto a Rich Broth plate containingTetracycline will form colonies after incubation for 16 hours at 37°C.	Pass
Antibiotic Sensitivity (Ampicillin) 15 µl of untransformed NEB® 5-alpha F'lq 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 F'lq 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

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

Lixin An

Production Scientist

13 Jul 2018

Corey Rabeau

Packaging Quality Control Inspector

01 Oct 2018



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