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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: 10009284
Expiration Date: 05/2019
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	40CC67	Pass	
C2992HVIAL	NEB® 5-alpha F Iq Competent E. coli (High Efficiency)	10009081	Pass	
B9020SVIAL	SOC Outgrowth Medium	5591803	Pass	

Assay Name/Specification	Lot # 10009284
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
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)	Pass



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Assay Name/Specification	Lot # 10009284
streaked onto a Rich Broth plate containing Nitrofurantoin will not form colonies after incubation for 16 hours at 37°C.	
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 blue/white screening by α-complementation of the β-galactosidase gene using pUC19.	Pass
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

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

Lixin An

Production Scientist

18 May 2018

Nick Privitera

Packaging Quality Control Inspector

18 May 2018



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