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New England Biolabs Certificate of Analysis

Product Name: NEB® 5-alpha Electrocompetent E.coli

Catalog Number: C2989K
Lot Number: 10027936
Expiration Date: 10/2019
Storage Temperature: -80°C

Specification Version: PS-C2989K v1.0

NEB® 5-alpha Electrocompetent E.coli Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
N3041AVIAL	pUC19 Vector	10025691	Pass	
C2989KVIAL	NEB® 5-alpha Electrocompetent E.coli	10021102	Pass	
B9020SVIAL	SOC Outgrowth Medium	10014596	Pass	

Assay Name/Specification	Lot # 10027936
Antibiotic Sensitivity (Ampicillin) 15 µl of untransformed NEB® 5-alpha Electrocompetent E. coli streaked onto a LB or 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 Electrocompetent E. coli streaked onto a LB or 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 Electrocompetent E. coli streaked onto a LB or 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 Electrocompetent E. coli streaked onto a LB or 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 Electrocompetent E. coli streaked onto a LB or Rich Broth plate containing Spectinomycin will not form colonies after incubation	Pass



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BioLabs Inc.

Assay Name/Specification	Lot # 10027936
for 16 hours at 37°C.	
Antibiotic Sensitivity (Streptomycin) 15 µl of untransformed NEB® 5-alpha Electrocompetent E. coli streaked onto a LB or 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 Electrocompetent E. coli streaked onto a LB or Rich Broth plate containing Tetracycline will not form colonies after incubation for 16 hours at 37°C.	Pass
Blue-White Screening (α-complementation, Competent Cells) NEB® 5-alpha Electrocompetent E. coli 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 Electrocompetent E. coli 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 25 µl of NEB® 5-alpha Electrocompetent E. coli cells were transformed with 10 pg of pUC19 DNA using the transformation protocol provided. Incubation overnight on LB-Ampicillin plates at 37°C resulted in >1 x 10e10 cfu/µg of DNA.	Pass

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

Derek Robinson Production Scientist 18 Sep 2018 Corey Rabeau

Packaging Quality Control Inspector

05 Nov 2018



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