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240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

Product Name:	NEB® 5-alpha Competent E. coli (Subcloning Efficiency)
Catalog Number:	C2988J
Lot Number:	10053705
Expiration Date:	08/2020
Storage Temperature:	-80°C
Specification Version:	PS-C2988J v1.0

NEB® 5-alpha Competent E. coli (Subcloning Efficiency) Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
C2988JVIAL	NEB® 5-alpha Competent E. coli (Subcloning Efficiency)	10035620	Pass

Assay Name/Specification	Lot # 10053705
Antibiotic Sensitivity (Streptomycin) 15 µl of untransformed NEB® 5-alpha Competent E. coli (Subcloning 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 (Subcloning Efficiency) streaked onto a 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 Competent E. coli (Subcloning 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 Competent E. coli (Subcloning 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 Competent E. coli (Subcloning 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 10e6 cfu/µg of DNA.	Pass





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Assay Name/Specification	Lot # 10053705
Antibiotic Sensitivity (Ampicillin) 15 μl of untransformed NEB® 5-alpha Competent E. coli (Subcloning 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 (Subcloning 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 Competent E. coli (Subcloning 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 Competent E. coli (Subcloning 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 Competent E. coli (Subcloning Efficiency) streaked onto a Rich Broth plate containing Spectinomycin 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 15 Mar 2019

Corey Rabeau

Packaging Quality Control Inspector 22 Aug 2019

