NEW ENGLAND BioLabs Inc.
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240 County Road
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New England Biolabs
Certificate of Analysis

Product Name: *NiCo21(DE3) Competent E. coli*
Catalog Number: *C2529H*
Lot Number: *10015496*
Expiration Date: *07/2019*
Storage Temperature: *-80°C*
Specification Version: *PS-C2529H v1.0*

NiCo21(DE3) Competent E. coli Component List			
NEB Part Number	**Component Description**	**Lot Number**	**Individual QC Result**
N3041AVIAL	pUC19 Vector	10010689	**Pass**
C2529HVIAL	NiCo21(DE3) Competent E. coli	10009045	**Pass**
B9020SVIAL	SOC Outgrowth Medium	5641804	**Pass**

Assay Name/Specification	Lot # 10015496
Transformation Efficiency 50 µl of NiCo21(DE3) Competent E. coli 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 10e7 cfu/µg of DNA.	**Pass**
Antibiotic Sensitivity (Ampicillin) 15 µl of untransformed NiCo21(DE3) Competent E. coli 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 NiCo21(DE3) Competent E. coli 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 NiCo21(DE3) Competent E. coli streaked onto a Rich Broth plate containing Kanamycin will not form colonies after incubation for 16 hours at 37°C.	**Pass**
Antibiotic Sensitivity (Spectinomycin) 15 µl of untransformed NiCo21(DE3) Competent E. coli streaked onto a Rich Broth plate containing Spectinomycin will not form colonies after incubation for 16 hours	**Pass**

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Assay Name/Specification	Lot # 10015496
at 37°C.	
Antibiotic Sensitivity (Streptomycin) 15 µl of untransformed NiCo21(DE3) Competent E. coli 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 NiCo21(DE3) Competent E. coli streaked onto a Rich Broth plate containing Tetracycline will not form colonies after incubation for 16 hours at 37°C.	**Pass**
Phage Resistance (ϕ 80) 15 µl of untransformed NiCo21(DE3) Competent 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**

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

Lixin An
Production Scientist
10 Jul 2018

Nick Privitera
Packaging Quality Control Inspector
10 Jul 2018