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New England Biolabs
Certificate of Analysis

Product Name: *BL21(DE3) Competent E. coli*
Catalog #: *C2527H/I*
Lot #: *0781609*
Assay Date: *09/2016*
Expiration Date: *09/2017*
Storage Temp: *-80°C*
Specification Version: *PS-C2527H/I v1.0*
Effective Date: *07 Jul 2016*

Assay Name/Specification (minimum release criteria)	**Lot #0781609**
Antibiotic Sensitivity (Ampicillin) - 15 µl of untransformed BL21(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 BL21(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 BL21(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 BL21(DE3) Competent *E. coli* 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 BL21(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 BL21(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 BL21(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**
Transformation Efficiency - 50 µl of BL21(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**

Authorized by
Derek Robinson
07 Jul 2016

Inspected by
Lixin An
06 Sep 2016

nqa ISO 9001 Registered Quality Management
nqa ISO 14001 Registered Environmental Management
nqa ISO 13485 Registered Medical Devices