

New England Biolabs Product Specification

Product Name: T7 Express Crystal Competent *E. coli* (High Efficiency)
Catalog #: C3022I
Shelf Life: 24 months
Storage Temp: -80°C
Specification Version: PS-C3022I v1.0
Effective Date: 04 Apr 2016

Assay Name/Specification (minimum release criteria)

Antibiotic Resistance (Nitrofurantoin) - 15 µl of untransformed T7 Express Crystal Competent *E. coli* (High Efficiency) streaked onto a Rich Broth plate containing Nitrofurantoin will form colonies after incubation for 16 hours at 37°C.

Antibiotic Sensitivity (Ampicillin) - 15 µl of untransformed T7 Express Crystal 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.

Antibiotic Sensitivity (Chloramphenicol) - 15 µl of untransformed T7 Express Crystal 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.

Antibiotic Sensitivity (Kanamycin) - 15 µl of untransformed T7 Express Crystal 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.

Antibiotic Sensitivity (Spectinomycin) - 15 µl of untransformed T7 Express Crystal 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.

Antibiotic Sensitivity (Streptomycin) - 15 µl of untransformed T7 Express Crystal 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.

Antibiotic Sensitivity (Tetracycline) - 15 µl of untransformed T7 Express Crystal Competent *E. coli* (High Efficiency) streaked onto a Rich Broth plate containing Tetracycline will not form colonies after incubation for 16 hours at 37°C.

Phage Resistance (Φ 80) - 15 µl of untransformed T7 Express Crystal 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.

Transformation Efficiency - 50 µl of T7 Express Crystal 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 >0.6 x 10^{e9} cfu/µg of DNA.



Date 04 Apr 2016

Derek Robinson
Director of Quality Control

