

New England Biolabs Product Specification

Product Name: NEB[®] PCR Cloning Kit

Catalog #: E1202S

Kit Components: Cloning Mix 1 (M1015) — Store at -20°C
Cloning Mix 2 (M1016) — Store at -20°C
Amplicon Cloning Control (N0555) — Store at -20°C
Linearized pMiniT[™] 2.0 Vector (N0312) — Store at -20°C
Cloning Analysis Forward Primer (S1512) — Store at -20°C
Cloning Analysis Reverse Primer (S1513) — Store at -20°C
pUC19 Vector (N3041) — Store at -20°C
NEB[®] 10-beta Competent *E. coli* (Cloning Efficiency) (C3018) — Store at -80°C
NEB[®] 10-beta/Stable Outgrowth Medium (B9035) — Store at 4°C

Shelf Life: 12 months

Storage Temp: Multi-temperature

Specification Version: PS-E1202S v2.0

Effective Date: 07 Jun 2018

Assay Name/Specification (minimum release criteria)

Functional Testing (NEB[®] PCR Cloning Kit) - A 10 µl ligation reaction containing 5 µl cloning mix, 25 ng of linearized pMiniT[™] 2.0 vector and 30 ng of a 1 kb amplicon containing A overhangs is incubated for 5 minutes at 25°C. Transformation of NEB 10-beta Competent *E. coli* with 2 µl of the ligated master mix/fragment mixture yields ≥ 100 colonies when 5% of the transformation is plated on an ampicillin plate and incubated overnight at 37°C. The colonies are screened by colony PCR and ≥95% of colonies have an insert present.

* **Individual Product Component Note** - Standard Quality Control Tests are performed for each component included in NEB[®] PCR Cloning Kit and meet the designated specifications.



Date 07 Jun 2018

Derek Robinson
Director of Quality Control

