

New England Biolabs Product Specification

Product Name: LongAmp[®] Taq PCR Kit
Catalog #: E5200S
Kit Components: LongAmp[®] Taq DNA Polymerase (M0323)
Deoxynucleotide (dNTP) Solution Mix (N0447)
LongAmp[®] Taq Reaction Buffer (B0323)
Magnesium Sulfate (MgSO₄) Solution (B1003)
Nuclease-free Water (B1502)
Shelf Life: 24 months
Storage Temp: -20°C
Specification Version: PS-E5200S v1.0
Effective Date: 17 Apr 2018

Assay Name/Specification (minimum release criteria)

PCR Amplification (30 kb Human Genomic DNA) - A 25 µl reaction in LongAmp[®] Taq Reaction Buffer in the presence of 300 µM dNTPs and 0.4 µM primers containing 500 ng Human Genomic DNA with 2.5 units of LongAmp[®] Taq DNA Polymerase for 28 cycles of PCR amplification results in the expected 30 kb product.

PCR Amplification (30 kb Lambda DNA) - A 25 µl reaction in LongAmp[®] Taq Reaction Buffer in the presence of 300 µM dNTPs and 0.4 µM primers containing 1 ng Lambda DNA with 2.5 units of LongAmp[®] Taq DNA Polymerase for 28 cycles of PCR amplification results in the expected 30 kb product.

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



Date 17 Apr 2018

Derek Robinson
Director of Quality Control

