

## New England Biolabs Product Specification

*Product Name:* *phi29-XT RCA Kit*  
*Catalog #:* *E1603S/L*  
*Kit Components:* *phi29-XT DNA Polymerase (M0572)*  
*phi29-XT Reaction Buffer (B0572)*  
*Exonuclease-Resistant Random Primers (S1884)*  
*Deoxynucleotide (dNTP) Solution Mix (N0447)*

*Shelf Life:* *24 months*  
*Storage Temp:* *-20°C*  
*Specification Version:* *PS-E1603S/L v1.0*  
*Effective Date:* *27 Mar 2023*

### Assay Name/Specification (minimum release criteria)

**Functional Testing (RCA DNA Amplification)** - A 20 µl rolling circle amplification (RCA) reaction in 1X phi29-XT Reaction Buffer in the presence of 1X phi29-XT DNA Polymerase and 50 µM Exonuclease-Resistant Random Primers generates at least 5 µg DNA from 0.1 ng plasmid DNA after incubation for 2 hours at 42°C.

\* **Individual Product Component Note** - Standard Quality Control Tests are performed for each component included in phi29-XT RCA Kit and meet the designated specifications.

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Date 27 Mar 2023

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Quality Approver

