

## New England Biolabs Product Specification

*Product Name:* NEBNext<sup>®</sup> rRNA Depletion Kit v2 (Human/Mouse/Rat) with RNA Sample Purification Beads

*Catalog #:* E7405S/L/X

*Kit Components:* NEBNext<sup>®</sup> DNase I (E7753) — Store at -20°C  
NEBNext<sup>®</sup> Thermostable RNase H (E7752) — Store at -20°C  
NEBNext<sup>®</sup> v2 rRNA Depletion Solution (E7401) — Store at -20°C  
RNase H Reaction Buffer (E6312) — Store at -20°C  
DNase I Reaction Buffer (E6315) — Store at -20°C  
Nuclease Free Water (E6317) — Store at -20°C  
NEBNext<sup>®</sup> Probe Hybridization Buffer (E6314) — Store at -20°C  
NEBNext<sup>®</sup> RNA Sample Purification Beads (E6351) — Store at 4°C

*Shelf Life:* 18 months

*Storage Temp:* Multi-temperature

*Specification Version:* PS-E7405S/L/X v1.0

*Effective Date:* 20 Apr 2020

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

**Functional Testing (RNA Sample Purification Beads)** - The NEBNext<sup>®</sup> RNA Sample Purification Beads are used for the final cleanup of enzymatic reactions in the NEBNext<sup>®</sup> rRNA Depletion Kit. Purified rRNA depleted total RNA is run on a Bioanalyzer resulting in the expected yield and size distribution.

**Functional Testing (rRNA Depletion)** - NEBNext<sup>®</sup> rRNA Depletion Kit v2 (Human/Mouse/Rat) with RNA Sample Purification Beads is functionally validated using commercially available human RNA (e.g. UHRR). After treatment with the kit, a high-throughput sequencing library is made and sequenced. Reads from this library are classified as being derived from ribosomal RNA based on sequence homology. This method produces libraries with <10% rRNA.

\* **Individual Product Component Note** - Standard Quality Control Tests are performed for each component included in NEBNext<sup>®</sup> rRNA Depletion Kit v2 (Human/Mouse/Rat) with RNA Sample Purification Beads and meet the designated specifications.





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## New England Biolabs Product Specification

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Date 20 Apr 2020

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Derek Robinson  
Quality Approver

