

## New England Biolabs Product Specification

*Product Name:* NEBNext<sup>®</sup> Single Cell/Low Input cDNA Synthesis & Amplification Module  
*Catalog #:* E6421S/L  
*Kit Components:* NEBNext<sup>®</sup> Single Cell RT Primer Mix (E6422)  
NEBNext<sup>®</sup> Single Cell RT Buffer (E6423)  
NEBNext<sup>®</sup> Template Switching Oligo (E6424)  
NEBNext<sup>®</sup> Single Cell RT Enzyme Mix (E6425)  
NEBNext<sup>®</sup> Single Cell cDNA PCR Master Mix (E6426)  
NEBNext<sup>®</sup> Single Cell cDNA PCR Primer (E6427)  
NEBNext<sup>®</sup> Cell Lysis Buffer (E6428)  
RNase Inhibitor, Murine (E6429)  
NEBNext<sup>®</sup> Bead Reconstitution Buffer (E6430)  
TE Buffer (E6432)  
Nuclease Free Water (E6433)

*Shelf Life:* 12 months  
*Storage Temp:* -20°C  
*Specification Version:* PS-E6421S/L v1.0  
*Effective Date:* 19 Apr 2018

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

**Functional Testing (Library Construction, Single Cell RNA)** - Each set of reagents is functionally validated and compared to a previous lot through construction of libraries made from single cells and commercially available RNA using the kit's minimum and maximum input requirements. Libraries made from previous and current lots are sequenced together on the same Illumina flow cell and compared across various metrics including library yield, individual transcript abundance, 5'-3' transcript coverage, percent ribosomal RNA, and fraction of reads mapping to a reference.

\* **Individual Product Component Note** - Standard Quality Control Tests are performed for each component included in NEBNext<sup>®</sup> Single Cell/Low Input cDNA Synthesis & Amplification Module and meet the designated specifications.



Date 19 Apr 2018

Derek Robinson  
Director of Quality Control

