

## New England Biolabs Product Specification

*Product Name:* NEBNext UltraShear<sup>®</sup>  
*Catalog #:* M7634S/L/G  
*Shelf Life:* 12 months  
*Storage Temp:* -20°C  
*Composition:* Proprietary  
*Specification Version:* PS-M7634S/L/G v1.0  
*Effective Date:* 29 Jun 2023

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

**Functional Testing (EM-seq Library Construction)** - Each set of NEBNext UltraShear<sup>®</sup> reagents is functionally tested and compared to the previous lot through construction of NEBNext<sup>®</sup> EM-seq libraries made from genomic DNA and DNA controls (CpG methylated pUC19 and unmethylated Lambda). The NEBNext<sup>®</sup> EM-seq kit's minimum and maximum DNA input requirements are used to make libraries that are sequenced on the same Illumina<sup>®</sup> flow cell. Library assessment is based on metrics including library yields, library size, GC bias, insert size, and the percent 5mC/5hmC detected for CpG, CHG, CHH contexts within the genomic DNA and internal controls.

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Date 29 Jun 2023

Lauren Brown  
Quality Approver

