

New England Biolabs Certificate of Analysis

Product Name: NEBNext UltraShear™
 Catalog Number: M7634G
 Packaging Lot Number: 10199821
 Expiration Date: 09/2024
 Storage Temperature: -20°C
 Specification Version: PS-M7634S/L/G v1.0

| NEBNext UltraShear™ Component List | | | |
|------------------------------------|-------------------------------------|------------|----------------------|
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| M7634GVIAL | NEBNext UltraShear™ | 10199822 | Pass |
| B9042GVIAL | NEBNext UltraShear™ Reaction Buffer | 10199823 | Pass |
| B1079GVIAL | 500mM DTT | 10199824 | Pass |

| Assay Name/Specification | Lot # 10199821 |
|---|----------------|
| <p>Functional Testing (EM-seq Library Construction)</p> <p>Each set of NEBNext UltraShear™ reagents is functionally tested and compared to the previous lot through construction of NEBNext® EM-seq libraries made from genomic DNA and DNA controls (CpG methylated pUC19 and unmethylated Lambda). The NEBNext® EM-seq kit's minimum and maximum DNA input requirements are used to make libraries that are sequenced on the same Illumina® 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.</p> | Pass |

This product has been tested and shown to be in compliance with all specifications.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

Christine Sumner

Christine Sumner
Production Scientist
27 Sep 2023

Josh Hersey

Josh Hersey
Packaging Quality Control Inspector
01 Nov 2023