

## New England Biolabs Certificate of Analysis

**Product Name:** NEBNext UltraShear<sup>®</sup>  
**Catalog Number:** M7634L  
**Packaging Lot Number:** 10226490  
**Expiration Date:** 02/2025  
**Storage Temperature:** -20°C  
**Specification Version:** PS-M7634S/L/G v1.0

| NEBNext UltraShear <sup>®</sup> Component List |   |            |                      |
|--|---|------------|----------------------|
| NEB Part Number                                | Component Description                           | Lot Number | Individual QC Result |
| M7634LVIAL                                     | NEBNext UltraShear <sup>®</sup>                 | 10226493   | Pass                 |
| B9042LVIAL                                     | NEBNext UltraShear <sup>®</sup> Reaction Buffer | 10226494   | Pass                 |
| B1079LVIAL                                     | 500mM DTT                                       | 10226495   | Pass                 |

| Assay Name/Specification   | Lot # 10226490 |
|--|----------------|
| <b>Functional Testing (EM-seq Library Construction)</b><br>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. | 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](http://www.neb.com/trademarks) for additional information.

*Christine Sumner*

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Christine Sumner  
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29 Feb 2024

*Michael Tonello*

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Packaging Quality Control Inspector  
29 Feb 2024