

## New England Biolabs Certificate of Analysis

**Product Name:** NEBNext UltraShear<sup>®</sup>  
**Catalog Number:** M7634L  
**Packaging Lot Number:** 10199829  
**Expiration Date:** 09/2024  
**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>	10199830	Pass
B9042LVIAL	NEBNext UltraShear <sup>®</sup> Reaction Buffer	10199831	Pass
B1079LVIAL	500mM DTT	10199832	Pass

Assay Name/Specification	Lot # 10199829
<b>Functional Testing (EM-seq Library Construction)</b> 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.	<b>Pass</b>

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  
Production Scientist  
27 Sep 2023

*Michael Tonello*

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Michael Tonello  
Packaging Quality Control Inspector  
19 Nov 2023