

## New England Biolabs Certificate of Analysis

**Product Name:** NEBNext UltraShear®  
**Catalog Number:** M7634L  
**Packaging Lot Number:** 10240619  
**Expiration Date:** 05/2025  
**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
M7634LVIAL	NEBNext UltraShear®	10240620	Pass
B9042LVIAL	NEBNext UltraShear® Reaction Buffer	10240621	Pass
B1079LVIAL	500mM DTT	10240622	Pass

Assay Name/Specification	Lot # 10240619
<b>Functional Testing (EM-seq Library Construction)</b> 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.	<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  
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04 Jun 2024

*Michael Tonello*

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Michael Tonello  
Packaging Quality Control Inspector  
04 Jun 2024