

## New England Biolabs Certificate of Analysis

Product Name: NEBNext UltraShear™  
 Catalog Number: M7634S  
 Packaging Lot Number: 10176152  
 Expiration Date: 01/2024  
 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
M7634SVIAL	NEBNext UltraShear™	10176153	Pass
B9042SVIAL	NEBNext UltraShear™ Reaction Buffer	10176154	Pass
B1079SVIAL	500mM DTT	10176155	Pass

Assay Name/Specification	Lot # 10176152
<p><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.</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](http://www.neb.com/trademarks) for additional information.

*Christine Sumner*

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Christine Sumner  
Production Scientist  
14 Jun 2023

*Michael Tonello*

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Michael Tonello  
Packaging Quality Control Inspector  
15 Aug 2023