

NEBNext[®] Ultra[™] II Reagents & Kits

THE CORE OF YOUR NGS LIBRARY PREP

EuroClone[®]

 NEW ENGLAND
BioLabs[®]

be INSPIRED
drive DISCOVERY
stay GENUINE

The heart of the matter

As sequencing technologies continue to improve and applications expand, the need for compatibility with everdecreasing input amounts and sub-optimal sample quality grows. Reliability and high performance are critical, along with faster turnaround, higher throughput and automation compatibility.

The NEBNext Ultra II workflow lies at the heart of NEB's portfolio for next generation sequencing library preparation. NEBNext Ultra II kits and modules for Illumina are the perfect combination of reagents, optimized formulations and simplified workflows, enabling you to generate DNA or RNA libraries of the highest quality and yield, even when starting from extremely low input amounts.

The central NEBNext Ultra II Workflow:



Advantages of the Ultra II Workflow:

- Learn one central workflow and apply it to a suite of different applications
- Save time with streamlined modular workflows, reduced hands-on time and automation compatibility
- Benefit from low input amount requirements, fewer PCR cycles and uniform GC coverage in all applications

What users are saying:

“NEB is currently the only company, which is offering really “automation friendly” library preparation kits. The volumes of components are calculated to cover for unavoidable deadvolumes, reactant volumes are in range of most automated platforms. The stability of the NEBNext chemistry allows a broad range of automation strategies”

– Dr. Jürgen Zimmermann,
Senior Engineer - Automation
GeneCore EMBL Heidelberg, Germany

The NEBNext Ultra II Workflow

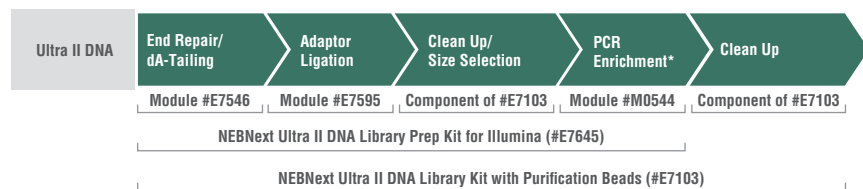
The Ultra II workflow is available in a convenient kit format, or as separate modules – it is easily scalable and automated on a range of liquid handling instruments. The NEBNext Ultra II workflow has been cited in thousands of publications, and was also used in COVID-19 related research and surveillance sequencing. Citation information and extensive performance data for each product is available on www.neb.com.


Choose the convenient


NEBNext Ultra II DNA Library Prep Kit for:

- Whole Genome Sequencing
- Exome Capture
- Targeted Sequencing
- Standard & Low Input Sequencing
- ChIP-seq, NICE-seq, Cut&Run-seq
- cfDNA

The Ultra II DNA* Workflow is Available in Convenient Kit Formats or Modules:



 Ultra II input amounts: 500 pg – 1 µg

 Hands on time: < 15 min
Total time: ~ 2:30 – 3:00 hrs

*PCR-free kits and reagents available

For more information, visit www.neb.com/E7410

The Ultra II Workflow is central to many NEBNext solutions, including:

Enzymatic DNA Fragmentation Library Prep



You'll be thrilled to pieces.

Directional & Non-directional RNA-seq



Even more *from* less – now for RNA.

Enzymatic Methyl-seq (bisulfite-free)



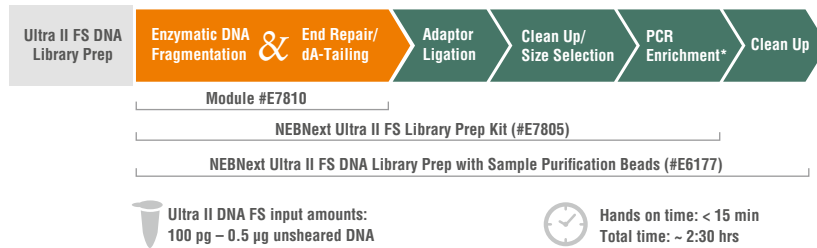
Heads up!

Single Cell/ Low Input RNA Library Prep



How low can you go?

NEBNext Ultra II FS DNA* Library Prep Workflow:



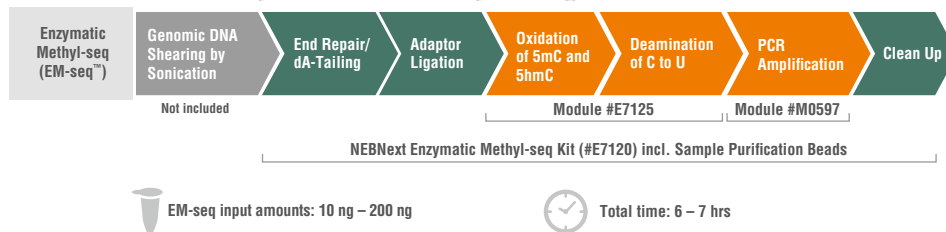
*PCR-free kits and reagents available

For more information, visit www.neb.com/E7430

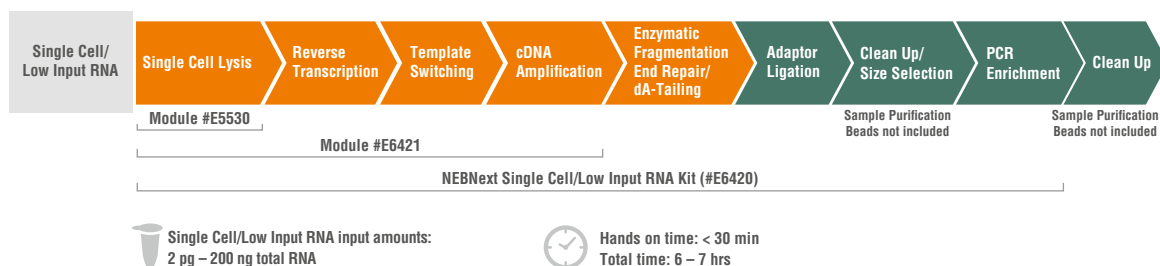
NEBNext Ultra II Directional RNA or Non-directional RNA Workflow:



NEBNext Enzymatic Methyl-seq Workflow:



NEBNext Single Cell/Low Input RNA Workflow:



Ordering Information

Kits for Illumina DNA Library Preparation	NEB #	Size
DNA & ChIP		
NEBNext UltraExpress DNA Library Prep Kit	E3325S/L	24/96 rxns
NEBNext Ultra II DNA Library Prep Kit for Illumina	E7645S/L	24/96 rxns
NEBNext Ultra II DNA Library Prep with Sample Purification Beads	E7103S/L	24/96 rxns
NEBNext Ultra II FS DNA Library Prep Kit for Illumina	E7805S/L	24/96 rxns
NEBNext Ultra II FS DNA Library Prep with Sample Purification Beads	E6177S/L	24/96 rxns
NEBNext Ultra II DNA PCR-free Library Prep Kit for Illumina	E7410S/L	24/96 rxns
NEBNext Ultra II DNA PCR-free Library Prep with Sample Purification Beads	E7415S/L	24/96 rxns
NEBNext Ultra II FS DNA PCR-free Library Prep Kit for Illumina	E7430S/L	24/96 rxns
NEBNext Ultra II FS DNA PCR-free Library Prep with Sample Purification Beads	E7435S/L	24/96 rxns
NEBNext Enzymatic Methyl-seq Kit	E7120S/L	24/96 rxns
NEBNext Enzymatic 5hmC-seq Kit	E3350S/L	24/96 rxns
NEBNext FFPE DNA Library Prep Kit	E6650S/L	24/96 rxns
NEBNext UltraShear FFPE DNA Library Prep Kit	E6655S/L	24/96 rxns
Modules & Enzymes		
DNA & ChIP		
NEBNext Enzymatic Methyl-seq Conversion Module	E7125S/L	24/96 rxns
NEBNext Enzymatic 5hmC-seq Conversion Module	E3365S/L	24/96 rxns
NEBNext FFPE DNA Repair v2 Module	E7360S/L	24/96 rxns
NEBNext Microbiome DNA Enrichment Kit	E2612S/L	6/24 rxns
NEBNext UltraShear	M7634S/L	24/96 rxns
NEBNext Ultra II FS DNA Module	E7810S/L	24/96 rxns
NEBNext Ultra II End Repair/dA-Tailing Module	E7546S/L	24/96 rxns
NEBNext Ultra II Ligation Module	E7595S/L	24/96 rxns
NEBNext Ultra II Q5 Master Mix	M0544S/L/X	50/250/500 rxns
NEBNext dsDNA Fragmentase	M0348S/L	50/250 rxns
NEBNext End Repair Module	E6050S/L	20/100 rxns
NEBNext dA-Tailing Module	E6053S/L	20/100 rxns
NEBNext Quick Ligation Module	E6056S/L	20/100 rxns
NEBNext Q5 Hot Start HiFi PCR Master Mix	M0543S/L	50/250 rxns
NEBNext High-Fidelity 2X PCR Master Mix	M0541S/L	50/250 rxns
NEBNext FFPE DNA Repair Mix	M6630S/L	24/96 rxns
NEBNext Q5U Master Mix	M0597S/L	50/250 rxns
NEBNext dsDNA Fragmentase Reaction Buffer v2	B0349S	6 ml
Adaptors & Primers		
NEBNext Multiplex Oligos for Illumina (Unique Dual Index UMI Adaptors DNA Set 1)	E7395S/L	96/384 rxns
NEBNext Multiplex Oligos for Illumina (Unique Dual Index UMI Adaptors DNA Set 2)	E7874S/L	96/384 rxns
NEBNext Multiplex Oligos for Illumina (Unique Dual Index UMI Adaptors DNA Set 3)	E7876S/L	96/384 rxns
NEBNext Multiplex Oligos for Illumina (Unique Dual Index UMI Adaptors DNA Set 4)	E7878S/L	96/384 rxns
NEBNext Multiplex Oligos for Illumina (96 Unique Dual Index Primer Pairs Set 1)	E6440S/L	96/384 rxns
NEBNext Multiplex Oligos for Illumina (96 Unique Dual Index Primer Pairs Set 2)	E6442S/L	96/384 rxns
NEBNext Multiplex Oligos for Illumina (96 Unique Dual Index Primer Pairs Set 3)	E6444S/L	96/384 rxns
NEBNext Multiplex Oligos for Illumina (96 Unique Dual Index Primer Pairs Set 4)	E6446S/L	96/384 rxns
NEBNext Multiplex Oligos for Illumina (96 Unique Dual Index Primer Pairs Set 5)	E6448S/L	96/384 rxns
NEBNext Multiplex Oligos for Enzymatic Methyl-seq (Unique Dual Index Primer Pairs)	E7140S/L	24/96 rxns
NEBNext Multiplex Oligos for Enzymatic 5hmC-seq (Unique Dual Index Primer Pairs)	E3360S/L	24/96 rxns
NEBNext Multiplex Oligos for Illumina (Dual Index Primers Set 1)	E7600S	96 rxns
NEBNext Multiplex Oligos for Illumina (Dual Index Primers Set 2)	E7780S	96 rxns
NEBNext Multiplex Oligos for Illumina (Index Primers Set 1)	E7335S/L	24/96 rxns
NEBNext Multiplex Oligos for Illumina (Index Primers Set 2)	E7500S/L	24/96 rxns
NEBNext Multiplex Oligos for Illumina (Index Primers Set 3)	E7710S/L	24/96 rxns
NEBNext Multiplex Oligos for Illumina (Index Primers Set 4)	E7730S/L	24/96 rxns
NEBNext Multiplex Oligos for Illumina (96 Index Primers)	E6609S/L	96/384 rxns
NEBNext Adaptor Dilution Buffer	#B1430S	1 x 9.6 ml

Modules & Enzymes	NEB #	Size
RNA		
NEBNext RNA Depletion Core Reagent Set	E7865S/L/X	6/24/96 rxns
NEBNext RNA Depletion Core Reagent Set with RNA Sample Purification Beads	E7870S/L/X	6/24/96 rxns
NEBNext Globin & rRNA Depletion Kit (Human/Mouse/Rat)	E7750S/L/X	6/24/96 rxns
NEBNext Globin & rRNA Depletion Kit (Human/Mouse/Rat) with RNA Sample Purification Beads	E7755S/L/X	6/24/96 rxns
NEBNext rRNA Depletion Kit v2 (Human/Mouse/Rat)	E7400S/L/X	6/24/96 rxns
NEBNext rRNA Depletion Kit v2 (Human/Mouse/Rat) with RNA Sample Purification Beads	E7405S/L/X	6/24/96 rxns
NEBNext rRNA Depletion Kit (Bacteria)	E7850S/L/X	6/24/96 rxns
NEBNext rRNA Depletion Kit (Bacteria) with RNA Sample Purification Beads	E7860S/L/X	6/24/96 rxns
NEBNext rRNA Depletion Kit (Human/Mouse/Rat)	E6310S/L/X	6/24/96 rxns
NEBNext rRNA Depletion Kit (Human/Mouse/Rat) with RNA Sample Purification Beads	E6350S/L/X	6/24/96 rxns
NEBNext Poly(A) mRNA Magnetic Isolation Module	E7490S/L	24/96 rxns
NEBNext High Input Poly(A) mRNA Isolation Module	E3370S	24 rxns
NEBNext Magnesium RNA Fragmentation Module	E6150S	200 rxns
NEBNext Ultra II RNA First Strand Synthesis Module	E7771S/L	24/96 rxns
NEBNext Ultra II Directional RNA Second Strand Synthesis Module	E7550S/L	24/96 rxns
NEBNext Ultra II Non-Directional RNA Second Strand Synthesis Module	E6111S/L	20/100 rxns
NEBNext Single Cell/Low Input cDNA Synthesis & Amplification Module	E6421S/L	24/96 rxns
NEBNext Single Cell Lysis Module	E5530S	96 rxns
Modules & Enzymes		
RNA		
NEBNext rRNA Depletion Kit (Human/Mouse/Rat)	E6310S/L/X	6/24/96 rxns
NEBNext rRNA Depletion Kit (Human/Mouse/Rat) with RNA Sample Purification Beads	E6350S/L/X	6/24/96 rxns
NEBNext Poly(A) mRNA Magnetic Isolation Module	E7490S/L	24/96 rxns
NEBNext High Input Poly(A) mRNA Isolation Module	E3370S	24 rxns
NEBNext Magnesium RNA Fragmentation Module	E6150S	200 rxns
NEBNext Ultra II RNA First Strand Synthesis Module	E7771S/L	24/96 rxns
NEBNext Ultra II Non-Directional RNA Second Strand Synthesis Module	E6111S/L	20/100 rxns
NEBNext Globin & rRNA Depletion Kit (Human/Mouse/Rat)	E7750S/L/X	6/24/96 rxns
Kits for Illumina RNA Library Preparation		
Directional RNA		
NEBNext UltraExpress RNA Library Prep Kit	E3330S/L	24/96 rxns
NEBNext Ultra II Directional RNA Library Prep Kit for Illumina	E7760S/L	24/96 rxns
NEBNext Ultra II Directional RNA Library Prep with Sample Purification Beads	E7765S/L	24/96 rxns
Non-directional RNA		
NEBNext Ultra II RNA Library Prep Kit for Illumina	E7770S/L	24/96 rxns
NEBNext Ultra II RNA Library Prep with Sample Purification Beads	E7775S/L	24/96 rxns
Small RNA		
NEBNext Multiplex Small RNA Library Prep Set for Illumina (Set 1)	E7300S/L	24/96 rxns
NEBNext Multiplex Small RNA Library Prep Set for Illumina (Set 2)	E7580S/L	24/96 rxns
NEBNext Multiplex Small RNA Library Prep Kit for Illumina (Index Primers 1-48)	#E7560S	96 rxns
NEBNext Small RNA Library Prep Set for Illumina (Multiplex Compatible)	E7330S/L	24/96 rxns
Single Cell		
NEBNext Single Cell/Low Input RNA Library Prep Kit for Illumina	E6420S/L	24/96 rxns

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Featured Tools



NEBNext Selector

For help with choosing the best reagents for your next generation sequencing sample preparation, try our NEBNext selector at NEBNextselector.neb.com.



Read Coverage Calculator

For help with calculation of values associated with read coverage in NGS protocols, try our Read Coverage Calculator at Readcoveragecalculator.neb.com.

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