Biomek-Automated NGS Library Construction Methods

DEMONSTRATED METHOD	BIOMEK i7 HYBRID LH	BIOMEK i7/i5 MULTICHANNEL LH	BIOMEK i5 SPAN-8 LH
CANCER PANELS			
Illumina AmpliSeq Cancer HotSpot Panel v2			●
Illumina AmpliSeq Comprehensive Panel v3			●
Illumina AmpliSeq Focus Panel			●
Illumina TruSight Oncology 500 HT Panel	★		
Illumina TruSight Tumor 170 Panel			●
NEB NEBNext Direct Cancer HotSpot Panel	■		
Illumina TruSight RNA Pan Cancer Panel	■		
DNA SEQUENCING			
IDT xGEN DNA EZ Library Prep Kit	■		
QIAseq Targeted DNA Panel	■		●
QIAseq Targeted DNA Pro Kit	■		
IDT xGEN Methylation Seq DNA Library Prep Kit	■		
Watchmaker Genomics DNA Library Prep Kit	■		
ATAC-Seq Library Prep Kit	■		
IDT xGEN cfDNA and FFPE DNA Lib Prep Kit	■		
Illumina AmpliSeq for Illumina NGS Kit			●
Illumina DNA PCR-Free Prep Kit	■		■
Illumina Nextera DNA Flex Library Prep Kit	●		
Illumina Nextera XT Library Prep Kit	●		
Illumina TruSeq DNA PCR-Free Kit	■		■
Illumina TruSeq Nano DNA Kit	■		
NEB NEBNext Ultra II DNA Library Prep Kit for Illumina NGS	■		
NEB NEBNext Ultra II FS DNA Library Prep Kit for Illumina NGS	■		
NEB NEBNext Enzymatic Methyl Seq Kit	■		
Oxford Nanopore Rapid Amplicon Barcoding Kit		■	
Oxford Nanopore genomic DNA Barcoding Kit		■	
Roche KAPA EvoPlus Library Prep Kit	■	▲	
Roche KAPA HyperPrep Kit for Illumina NGS Library Prep	■ ▲		
Roche KAPA HyperPlus Kit for Illumina NGS Library Prep	■ ▲		
Swift Biosciences Accel - NGS 2S Plus DNA Library Kit for Illumina NGS	■		
Twist Library Preparation Kit (Mechanical & enzymatic fragmentation)	■		■
HLA TYPING			
GenDx NGSgo Kit	■		
Immucor MIA FORA Flex HLA Kit	▲	▲	
RNA SEQUENCING			
Illumina AmpliSeq for Illumina NGS Kit			●
Illumina RNA Prep with Enrichment Kit	■		
Illumina TruSeq RNA Library Prep Kit v2	■		
Illumina TruSeq RNA Exome Kit	■		
Illumina TruSeq Stranded mRNA Library Prep Kit	■		
Illumina TruSeq Stranded Total RNA Library Prep Kit	■		
Mercurius BRB-seq (Bulk RNA Barcoding) Library Prep Kit	■		
Mercurius DRUG-seq RNA Library Prep Kit	■		
Watchmaker Genomics RNA Library Prep Kit with Polaris depletion	■		
Illumina Stranded mRNA Library Prep Kit	■		
Illumina Stranded Total RNA Library Prep Kit	■		
Lexogen QuantSeq 3' mRNA -Seq Library Prep Kit	■		
NEBNext ARTIC SARS-CoV-2 FS Library Prep Kit	■		
NEB NEBNext Ultra II Directional RNA Library Prep Kit for Illumina NGS	■		
NuGEN Universal Plus mRNA-Seq Library Preparation Kit	■		
Oxford Nanopore Midnight Covid Seq Kit	■		
Qiagen QIAseq DIRECT SARS-CoV-2 Kit	■		■
Qiagen QIAseq miRNA UDI Library Kit	■		
Roche KAPA mRNA HyperPrep Kit	■		
Roche KAPA RNA HyperPrep Kit with RiboErase (HMR)	■		
SINGLE-CELL SEQ			
10X Genomics Single Cell 3' kit- Library Preparation	■		
NEB NEBNext Single Cell/ Low Input RNA Library Prep Kit	■		
Takara SMART-Seq HT Kit	■		
TARGET/EXOME CAPTURE			
Agilent SureSelect XT Kit	■		
IDT xGen Hybridization Capture Kit	■		
Illumina Nextera Flex Enrichment Kit	●		
Illumina TruSeq Exome Kit	■		
Illumina DNA Prep with Enrichment Exome 2.0 Kit	■		
NEBNext Direct Genotyping Solution for Illumina Kit	■		
Roche HyperCap v2.0 Hyb capture Kit	■		
Twist Fast Hybridization and Wash Kit	■		
Twist Standard Hybridization and Wash Kit	■		

Biomek-Automated Nucleic Acid Sample Preparation Methods

	DEMONSTRATED METHOD	BIOMEK i7 HYBRID	BIOMEK i7/i5 MULTICHANNEL	BIOMEK i5 SPAN-8
DNA AND RNA PURIFICATION AND CLEAN UP, SIZE SELECTION, QUANTITATION, NORMALIZATION, POOLING	Agilent TapeStation 2200 Plate Setup for analysis of DNA Fragments			■
	Beckman AMPure XP - PCR Purification Kit	■	■	
	Beckman CleanSEQ - Dye Terminator Removal Kit	■		
	Beckman SPRIselect - Size Selection Kit	■		■
	COVARIS DNA Shearing Plate Setup for E220 Focused Ultrasonicators			■
	Promega Wizard MagneSil Tfx Plasmid Purification System		■	
	Quantitation/Normalization Protocols			■
	Roche KAPA Biosystems Library Quantification Kit - Illumina (96 and 384)			■
NUCLEIC ACID ISOLATION	Apostle Minimax™ High Efficiency cfDNA Isolation kit - Isolation of cfDNA from Plasma	■	■	
	Beckman DNAdvance - DNA Isolation from Tissue System	■	■	
	Beckman FormaPure XL DNA Kit - DNA Isolation from FFPE Tissue	■	■	■
	Beckman FormaPure XL RNA Kit - RNA Isolation from FFPE Tissue	■	■	
	Beckman FormaPure XL Total Kit -DNA and RNA Isolation from a Single FFPE Tissue Sample	■	■	
	Beckman GenFind v2 Kit- DNA Isolation from Blood	■	■	
	Beckman GenFind v3 Kit - DNA Isolation from Blood, Cells & Serum	■	■	■
	Beckman RNAdvance Blood Kit- RNA Isolation from Blood	■	■	
	Beckman RNAdvance Cell Kit- RNA Isolation from Cells		■	
	Beckman RNAdvance Viral Kit- RNA Isolation from Viral samples		■	
	Beckman RNAdvance Tissue Kit- RNA Isolation from Tissue	■	■	
	Cytiva Sera-Xtracta HMW Kit	■		
	Cytiva Viral Pathogen RNA isolation Kit	■		

Method Key

■ Demonstrated Method: This indicates that the method was developed for a sample preparation kit following a vendor's published manual protocol. Each one is tested with scientifically relevant samples and has yielded results that meet the kit vendor's specifications either in a customer lab (customer demonstrated) or in a Beckman Coulter Life Sciences Lab (Beckman demonstrated). Beckman Coulter makes no claims or warranties regarding the use or performance of these methods.

● Illumina Qualified Method: This indicates that Illumina's analysis of libraries prepared with the Biomek-automated method has shown the libraries to perform comparably to those prepared manually. This method is not an Illumina product, and Illumina does not directly support this product. Illumina makes no representations or warranties with respect to this product.

▲ Method created and provided by kit vendor.

★ TruSight Qualified method: These methods are co-developed by Illumina and the automation partner, undergo verification testing at Illumina and are alpha tested at a user site. The methods are installed and supported by the partner, but Illumina FAS will offer method training and will provide front line support. Technical support will also offer front line support in order to determine if the customer issue is the method/automation or the kit.

For Beckman Coulter's worldwide office locations and phone numbers, please visit Contact Us at **beckman.com**

2023-GBL-EN-104634-v2