

Illumina X-Leap-SBS-compatible Full-Length and Total BRB-seq/DRUG-seq library indexing adapters

The libraries prepared with the MERCURIUS™ Full-Length or Total BRB-seq/DRUG-seq kit carry Illumina adapter sequences compatible with a new Illumina chemistry used in Novaseq X, Novaseq X Plus, NextSeq1000/2000 instruments.

The Unique Dual Indexing (UDI) strategy ensures the highest library sequencing and demultiplexing accuracy and complies with the best practices for Illumina sequencing platforms. UD-indexed libraries have distinct index adapters for both i7 and i5 index reads.

Designed adapters contain confirmed Illumina indices for X-Leap two and three libraries pooled and sequenced together (see the table below)

Unique Dual Indexing adapter sequences for Illumina

N°	Name	Type	i7 index sequence	i5 index sequence Forward Workflow	i5 index sequence Reverse Workflow	UDI compatibility for libraries sequenced <u>together</u>	
						3 libraries	2 libraries
1	MF.UDI.X.1	UDI (i7/i5)	AACATCGCGC	GTCCACTTGT	ACAAGTGGAC		OK
2	MF.UDI.X.2	UDI (i7/i5)	GTCCGTAAGC	CGTGTATCTT	AAGATACACG	OK	
3	MF.UDI.X.3	UDI (i7/i5)	GTATTCCACC	ATGTAGACAA	TTGTCTACAT	OK	
4	MF.UDI.X.4	UDI (i7/i5)	CCTCCGTCCA	CACATCGGTG	CACCGATGTG	OK	OK