

SPECIFICATION SHEET

Product Name: Primer Kit for Illumina, Set 3
Catalog # PK03-K29A

Product Description: SignalChem Diagnostics Illumina Primer Kit is an indexing kit designed for NGS library preparation for the Illumina sequencing platform. This kit contains paired-end (PE) adapters and unique dual-index (UDI) primers. Each UDI primer consists of a combined i5 and i7 primer mix. Sets 1-4 are available, each with 96 indexes, enabling the preparation of up to 384 uniquely dual-indexed sequencing libraries.

Components:

Pack size	96 x 1 T
PE Adapter	336 µL
UDI Primers 193-288	5 µL each

Shipping & Storage: Store at -15 °C ~ -25 °C for 2 years.

Additional Information:

- The PE adapters are at a concentration of 20 µM and are short adapter sequences that require subsequent PCR amplification to produce complete sequencing libraries.
- The UDI primers are at a concentration of 12.5 µM.
- Thaw adapters slowly at room temperature, and store in aliquots to avoid repeated freeze-thaw.
- The resulting DNA library will have the following structure:



P5 i5 index Rd1 SP Insert DNA Rd2 SP i7 index P7

- For research use only.
- Use appropriate personal protective equipment (PPE), such as a laboratory coat and gloves, and follow proper disposal protocols.

Table 1. Sequence Information

Product	Sequence
PE Adapter for Illumina	5'-/5Phos/GATCGGAAGAGCACACGTCTGAACTCCAGT*C-3' 5'-ACACTCTTTCCCTACACGACGCTCTTCCGATC*T-3'
i5 Index Primer for Illumina	5'-AATGATACGGCGACCACCGAGATCTACAC[i5 index]ACACTCTTTCCCTACACGACGCTCTTCCGATCT-3'
i7 Index Primer for Illumina	5'-CAAGCAGAAGACGGCATACGAGAT[i7 Index]GTGACTGGAGTTCAGACGTGTGCTCTTCCGATC-3'

Note: [i5 Index] and [i7 index] represent a unique 8 base pair index sequence.

Primer locations on the 96-well plate are as follows:

Set 3												
	1	2	3	4	5	6	7	8	9	10	11	12
A	193	201	209	217	225	233	241	249	257	265	273	281
B	194	202	210	218	226	234	242	250	258	266	274	282
C	195	203	211	219	227	235	243	251	259	267	275	283
D	196	204	212	220	228	236	244	252	260	268	276	284
E	197	205	213	221	229	237	245	253	261	269	277	285
F	198	206	214	222	230	238	246	254	262	270	278	286
G	199	207	215	223	231	239	247	255	263	271	279	287
H	200	208	216	224	232	240	248	256	264	272	280	288