SPECIFICATIONS

NextSeq 1000 and NextSeq 2000 Systems

Standard SBS reagent kits

illumina®

Performance parameters for the NextSeq 1000 and NextSeq 2000 Systems with standard SBS chemistry

Output per flow cell[a]

Read length	NextSeq 1000/2000 P1 Reagents	NextSeq 1000/2000 P2 Reagents	NextSeq 2000 P3 Reagents
Single-end reads	100M	400M (300M for 2 × 300 bp)	1.2B
1 × 50 bp	–	–	60 Gb
2 × 50 bp	10 Gb	40 Gb	120 Gb
2 × 100 bp	–	80 Gb	240 Gb
2 × 150 bp	30 Gb	120 Gb	360 Gb
2 × 300 bp	60 Gb	180 Gb	–

Quality scores[b]

Read length	NextSeq 1000/2000 P1, P2 Reagents, NextSeq 2000 P3 Reagents
1 × 50 bp, 2 × 50 bp	≥ 90% of bases higher than Q30
2 × 100 bp, 2 × 150 bp	≥ 85% of bases higher than Q30
2 × 300 bp	≥ 80% of bases higher than Q30

Run time

Read length	NextSeq 1000/2000 P1 Reagents	NextSeq 1000/2000 P2 Reagents	NextSeq 2000 P3 Reagents
1 × 50 bp	–	–	11 hr
2 × 50 bp	10 hr	13 hr	19 hr
2 × 100 bp	–	21 hr	33 hr
2 × 150 bp	19 hr	29 hr	48 hr
2 × 300 bp	34 hr	44 hr[a]	–

a. Output specifications based on a single flow cell using Illumina PhiX control library at supported cluster densities.
b. Quality scores are based on an Illumina Phix control library; performance may vary based on library type and quality, insert size, loading concentration, and other experimental factors.

Ordering information

Product	Catalog no.
NextSeq 1000/2000 P1 Reagents (100 cycles)	20074933
NextSeq 1000/2000 P1 Reagents (300 cycles)	20050264
NextSeq 1000/2000 P1 Reagents (600 cycles)	20075294
NextSeq 1000/2000 P2 Reagents (100 cycles)	20046811
NextSeq 1000/2000 P2 Reagents (200 cycles)	20046812
NextSeq 1000/2000 P2 Reagents (300 cycles)	20046813
NextSeq 1000/2000 P2 Reagents (600 cycles)	20075295
NextSeq 2000 P3 Reagents (50 cycles)	20046810
NextSeq 2000 P3 Reagents (100 cycles)	20040559
NextSeq 2000 P3 Reagents (200 cycles)	20040560
NextSeq 2000 P3 Reagents (300 cycles)	20040561
NextSeq 1000/2000 Read and Index Primers	20046115
NextSeq 1000/2000 Index Primer Kit	20046116
NextSeq 1000/2000 Read Primer Kit	20046117

Switch to XLEAP-SBS™ chemistry on the NextSeq 1000 and NextSeq 2000 Systems

XLEAP-SBS reagents for P1, P2, and P3 flow cells enable higher quality and faster run times on the NextSeq 1000 and NextSeq 2000 Systems. NextSeq 1000/2000 XLEAP-SBS kit configurations offer better flexibility and scalability, from 10 Gb and 100M reads to 540 Gb and 1.8B reads. Standard SBS reagent kits for NextSeq 1000 and NextSeq 2000 Systems will be available to order until end of Q2 2025, with a last ship date at end of Q4 2025.

NextSeq 1000 and NextSeq 2000 Sequencing Systems specifications sheet

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