MiSeq specifications

Cluster Generation and Sequencing

MiSeq Reagent Kit v2			MiSeq Reagent Kit v3		
Read Length	*Total Time**	*Output*	*Read Length*	*Total Time**	*Output*
1 × 36 bp	~4 hrs	540-610 Mb	2 × 75 bp	~20 hrs	3.3-3.8 Gb
2 × 25 bp	~5.5 hrs	750-850 Mb	2 × 300 bp	~55 hrs	13.2-15 Gb
2 × 150 bp	~24 hrs	4.5-5.1 Gb			
2 × 250 bp	~39 hrs	7.5-8.5 Gb			

Reads Passing Filter†

MiSeq Reagent Kit v2		MiSeq Reagent Kit v3	
Single Reads	12-15 M	Single Reads	22-25 M
Paired-End Reads	24-30 M	Paired-End Reads	44-50 M

*Total time includes cluster generation, sequencing, and basecalling on a MiSeq System enabled with dual-surface scanning.

†Install specifications based on Illumina PhiX control library at supported cluster densities (between 467-583 k/mm^2 clusters passing filter for v2 chemistry and 727-827 k/mm^2 clusters passing filter for v3 chemistry). Actual performance parameters may vary based on sample type, sample quality, and clusters passing filter