

## Certificate of Analysis

### Description

Product Name	MiSeqDx Universal Kit v3 SBS		
Part Number	15072804	Lot Number	A114715

### Test Conditions

Kitted reagents were tested on a MiSeqDx using v3 Chemistry in a 26+301 cycle paired end run configuration with PhiX at a concentration which produced a cluster density of 1200-1550 K/mm<sup>2</sup>.

### Test Results

Metric	Specification		UOM	Result	
	Read 1	Read 2		Read 1	Read 2
Q-score $\geq 30$ <sup>1</sup>	$\geq 94.00$	$\geq 70.00$	%	Pass	Pass
Reads PF <sup>2</sup>	$\geq 22.00$		Million	Pass	

<sup>1</sup> Q-Scores measure the probability that a base is called incorrectly. A higher quality score indicates a smaller probability of error. A quality score of 30 represents an error rate of 1 in 1000, with a corresponding call accuracy of 99.9%.

<sup>2</sup> Reads PF or Reads Passing Filter, is the number of reads (also called clusters) detected by the sequencing instrument that pass the quality requirements of the Illumina chastity filter. The chastity of a base call is the ratio of the intensity of the greatest signal divided by the sum of the two greatest signals. Reads do not pass the quality filter if there are two or more base calls with chastity of less than 0.6 in the first 25 cycles.

### Certification

This document certifies that the product(s) described above meet quality specifications.

### Quality Review

Print Name	DONNA MAE CRUZ	Signature		Date	28 MAR 2018
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