Sources of sample cross-talk

Combinatorial

P5 A   1 P7

Sample 1

A   2

Sample 2

Unique, dual-matched

P5 1   1 P7

Sample 1

2   2

Sample 2

Combinatorial

Adapter contamination

1%

| 1 | 2 | 3 | 4 |
A   A1 A2
B

P5
100%   99%

99% Correctly assigned

100%   1%

1% Misassigned

Multiplexed target enrichment

P5   P7
              P7

Incomplete extension

Annealing and extension

Misassigned

Sequencing

P5   P7
         Rd2 SP   P7

Free adapter annealing and extension

P5
P5rc   P7

Product can seed new wells

Misassigned

Demultiplexing errors

Misassigned

Unique, dual-matched

Adapter contamination

1%

| 1 | 2 | 3 | 4 |
A   1   2
B

99%   99%

98.01% Correctly assigned

1%   1%

0.01% Misassigned

99%   1%

1%   99%

1.98% Filtered out

Multiplexed target enrichment

P5   P7
           P7

Incomplete extension

Annealing and extension

Filtered out

Sequencing

P5   P7
       Rd2 SP   P7

Free adapter annealing and extension

P5
P5rc   P7

Product can seed new wells

Filtered out

Demultiplexing errors

Filtered out