

Cell Suspension Volume Calculator for Multiplexing 4 Samples

Volume of Cell Suspension Stock per reaction (µl) | Volume of Post-Hyb Resuspension Buffer per reaction (µl)

Cell Stock Concentration (Cells/µl)	Targeted Cell Recovery										
	2000	4000	8000	12000	16000	20000	24000	28000	32000	36000	40000
500	6.6 33.4	13.2 26.8	26.4 13.6	39.6 0.4	n/a	n/a	n/a	n/a	n/a	n/a	n/a
750	4.4 35.6	8.8 31.2	17.6 22.4	26.4 13.6	35.2 4.8	n/a	n/a	n/a	n/a	n/a	n/a
1000	3.3 36.7	6.6 33.4	13.2 26.8	19.8 20.2	26.4 13.6	33.0 7.0	39.6 0.4	n/a	n/a	n/a	n/a
1250	2.6 37.4	5.3 34.7	10.6 29.4	15.8 24.2	21.1 18.9	26.4 13.6	31.7 8.3	37.0 3.0	n/a	n/a	n/a
1500	2.2 37.8	4.4 35.6	8.8 31.2	13.2 26.8	17.6 22.4	22.0 18.0	26.4 13.6	30.8 9.2	35.2 4.8	39.6 0.4	n/a
1750	1.9 38.1	3.8 36.2	7.5 32.5	11.3 28.7	15.1 24.9	18.9 21.1	22.6 17.4	26.4 13.6	30.2 9.8	33.9 6.1	37.7 2.3
2000	1.7 38.4	3.3 36.7	6.6 33.4	9.9 30.1	13.2 26.8	16.5 23.5	19.8 20.2	23.1 16.9	26.4 13.6	29.7 10.3	33.0 7.0
2250	1.5 38.5	2.9 37.1	5.9 34.1	8.8 31.2	11.7 28.3	14.7 25.3	17.6 22.4	20.5 19.5	23.5 16.5	26.4 13.6	29.3 10.7
2500	1.3 38.7	2.6 37.4	5.3 34.7	7.9 32.1	10.6 29.4	13.2 26.8	15.8 24.2	18.5 21.5	21.1 18.9	23.8 16.2	26.4 13.6
2750	1.2 38.8	2.4 37.6	4.8 35.2	7.2 32.8	9.6 30.4	12.0 28.0	14.4 25.6	16.8 23.2	19.2 20.8	21.6 18.4	24.0 16.0
3000	1.1 38.9	2.2 37.8	4.4 35.6	6.6 33.4	8.8 31.2	11.0 29.0	13.2 26.8	15.4 24.6	17.6 22.4	19.8 20.2	22.0 18.0
3250	1.0 39.0	2.0 38.0	4.1 35.9	6.1 33.9	8.1 31.9	10.2 29.8	12.2 27.8	14.2 25.8	16.2 23.8	18.3 21.7	20.3 19.7
3500	0.9 39.1	1.9 38.1	3.8 36.2	5.7 34.3	7.5 32.5	9.4 30.6	11.3 28.7	13.2 26.8	15.1 24.9	17.0 23.0	18.9 21.1
3750	0.9 39.1	1.8 38.2	3.5 36.5	5.3 34.7	7.0 33.0	8.8 31.2	10.6 29.4	12.3 27.7	14.1 25.9	15.8 24.2	17.6 22.4
4000	0.8 39.2	1.7 38.4	3.3 36.7	5.0 35.1	6.6 33.4	8.3 31.8	9.9 30.1	11.6 28.5	13.2 26.8	14.9 25.2	16.5 23.5
4250	0.8 39.2	1.6 38.4	3.1 36.9	4.7 35.3	6.2 33.8	7.8 32.2	9.3 30.7	10.9 29.1	12.4 27.6	14.0 26.0	15.5 24.5
4500	0.7 39.3	1.5 38.5	2.9 37.1	4.4 35.6	5.9 34.1	7.3 32.7	8.8 31.2	10.3 29.7	11.7 28.3	13.2 26.8	14.7 25.3
4750	0.7 39.3	1.4 38.6	2.8 37.2	4.2 35.8	5.6 34.4	6.9 33.1	8.3 31.7	9.7 30.3	11.1 28.9	12.5 27.5	13.9 26.1
5000	0.7 39.3	1.3 38.7	2.6 37.4	4.0 36.0	5.3 34.7	6.6 33.4	7.9 32.1	9.2 30.8	10.6 29.4	11.9 28.1	13.2 26.8
5250	0.6 39.4	1.3 38.7	2.5 37.5	3.8 36.2	5.0 35.0	6.3 33.7	7.5 32.5	8.8 31.2	10.1 29.9	11.3 28.7	12.6 27.4
5500	0.6 39.4	1.2 38.8	2.4 37.6	3.6 36.4	4.8 35.2	6.0 34.0	7.2 32.8	8.4 31.6	9.6 30.4	10.8 29.2	12.0 28.0
5750	0.6 39.4	1.1 38.9	2.3 37.7	3.4 36.6	4.6 35.4	5.7 34.3	6.9 33.1	8.0 32.0	9.2 30.8	10.3 29.7	11.5 28.5
6000	0.6 39.5	1.1 38.9	2.2 37.8	3.3 36.7	4.4 35.6	5.5 34.5	6.6 33.4	7.7 32.3	8.8 31.2	9.9 30.1	11.0 29.0
Yellow boxes	Indicate a low transfer volume that may result in higher cell load variability										

Cell Suspension Volume Calculator for Multiplexing 16 Samples

Volume of Cell Suspension Stock per reaction (µl) | Volume of Post-Hyb Resuspension Buffer per reaction (µl)

Cell Stock Concentration (Cells/µl)	Targeted Cell Recovery								
	8000	16000	32000	48000	64000	80000	96000	112000	128000
500	26.4 13.6	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1000	13.2 26.8	26.4 13.6	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1500	8.8 31.2	17.6 22.4	35.2 4.8	n/a	n/a	n/a	n/a	n/a	n/a
2000	6.6 33.4	13.2 26.8	26.4 13.6	39.6 0.4	n/a	n/a	n/a	n/a	n/a
2500	5.3 34.7	10.6 29.4	21.1 18.9	31.7 8.3	n/a	n/a	n/a	n/a	n/a
3000	4.4 35.6	8.8 31.2	17.6 22.4	26.4 13.6	35.2 4.8	n/a	n/a	n/a	n/a
3500	3.8 36.2	7.5 32.5	15.1 24.9	22.6 17.4	30.2 9.8	37.7 2.3	n/a	n/a	n/a
4000	3.3 36.7	6.6 33.4	13.2 26.8	19.8 20.2	26.4 13.6	33.0 7.0	39.6 0.4	n/a	n/a
4500	2.9 37.1	5.9 34.1	11.7 28.3	17.6 22.4	23.5 16.5	29.3 10.7	35.2 4.8	n/a	n/a
5000	2.6 37.4	5.3 34.7	10.6 29.4	15.8 24.2	21.1 18.9	26.4 13.6	31.7 8.3	37.0 3.0	n/a
5500	2.4 37.6	4.8 35.2	9.6 30.4	14.4 25.6	19.2 20.8	24.0 16.0	28.8 11.2	33.6 6.4	38.4 1.6
6000	2.2 37.8	4.4 35.6	8.8 31.2	13.2 26.8	17.6 22.4	22.0 18.0	26.4 13.6	30.8 9.2	33.6 6.4
6500	2.0 38.0	4.1 35.9	8.1 31.9	12.2 27.8	16.2 23.8	20.3 19.7	24.4 15.6	28.4 11.6	32.5 7.5
7000	1.9 38.1	3.8 36.2	7.5 32.5	11.3 28.7	15.1 24.9	18.9 21.1	22.6 17.4	26.4 13.6	30.2 9.8
7500	1.8 38.2	3.5 36.5	7.0 33.0	10.6 29.4	14.1 25.9	17.6 22.4	21.1 18.9	24.6 15.4	28.2 11.8
8000	1.7 38.4	3.3 36.7	6.6 33.4	9.9 30.1	13.2 26.8	16.5 23.5	19.8 20.2	23.1 16.9	26.4 13.6
8500	1.6 38.4	3.1 36.9	6.2 33.8	9.3 30.7	12.4 27.6	15.5 24.5	18.6 21.4	21.7 18.3	24.8 15.2
9000	1.5 38.5	2.9 37.1	5.9 34.1	8.8 31.2	11.7 28.3	14.7 25.3	17.6 22.4	20.5 19.5	23.5 16.5
9500	1.4 38.6	2.8 37.2	5.6 34.4	8.3 31.7	11.1 28.9	13.9 26.1	16.7 23.3	19.5 20.5	22.2 17.8
10000	1.3 38.7	2.6 37.4	5.3 34.7	7.9 32.1	10.6 29.4	13.2 26.8	15.8 24.2	18.5 21.5	21.1 18.9

Yellow boxes Indicate a low transfer volume that may result in higher cell load variability