Higher Sample Volume + Higher Recovery Rate = more cf/ctDNA

Other methods lower sample volume and recovery are inadequate for low frequency alleles

Typical nRich^{DX} yields

Sample Vol.	Total cfDNA	cfDNA Yield (ng) at Specified Recovery Rate					
(ml)	(ng)	50%	60%	70%	80%	90%	100%
1	8	4	5	6	6	7	8
2	16	8	10	11	13	14	16
3	24	12	14	17	19	22	24
4	32	16	19	22	26	29	32
5	40	20	24	28	32	36	40
6	48	24	29	34	38	43	48
7	56	28	34	39	45	50	56
8	64	32	38	45	51	58	64
9	72	36	43	50	58	65	72
10	80	40	48	56	64	72	80
11	88	44	53	62	70	79	88
12	96	48	58	67	77	86	96
13	104	52	62	73	83	94	104
14	112	56	67	78	90	101	112
15	120	60	72	84	96	108	120
16	128	64	77	90	102	115	128
17	136	68	82	95	109	122	136
18	144	72	86	101	115	130	144
19	152	76	91	106	122	137	152
20	160	80	96	112	128	144	160

Green = >95% Confident Result

	Total cfDNA (ng)	Copies of cfDNA	ctDNA by Mutant Allele Frequency							
			1%	0.20%	0.10%	0.050%	0.040%	0.030%	0.020%	0.010%
Competitor A	8	2,400	24	5	2	1	1	1	0	0
Competitor B	16	4,800	48	10	5	2	2	1	1	0
	24	7,200	72	14	7	4	3	2	1	1
nRich^{DX}	32	9,600	96	19	10	5	4	3	2	1
	40	12,000	120	24	12	6	5	4	2	1
	48	14,400	144	29	14	7	6	4	3	1
	56	16,800	168	34	17	8	7	5	3	2
	64	19,200	192	38	19	10	8	6	4	2
	72	21,600	216	43	22	11	9	6	4	2
	80	24,000	240	48	24	12	10	7	5	2
	88	26,400	264	53	26	13	11	8	5	3
	96	28,800	288	58	29	14	12	9	6	3
	104	31,200	312	62	31	16	12	9	6	3
	112	33,600	336	67	34	17	13	10	7	3
	120	36,000	360	72	36	18	14	11	7	4
	128	38,400	384	77	38	19	15	12	8	4
	136	40,800	408	82	41	20	16	12	8	4
	144	43,200	432	86	43	22	17	13	9	4
	152	45,600	456	91	46	23	18	14	9	5
	160	48,000	480	96	48	24	19	14	10	5

- Standard NGS - optimal cost, normal reimbursement
- Stretch NGS - high cost, normal reimbursement
- Borderline results - possibly no reimbursement
- No result