

Supplementary

Cell line	Bead	Success/attempt	Success percentage
LNCaP	Dynell	20/20	100%
	CellSearch	20/20	100%
	Milteyni	20/20	100%
PC3	Dynell	20/20	100%
	CellSearch	28/29	97%
	Milteyni	15/24	63%

Supplementary table S1; Number of attempts and success percentage for the pickup of LNCaP and PC3 using Dynell, CellSearch and Milteyni beads for magnetic labelling.

N	Cells spiked	Recovered after enrichment	Pickup attempted	Successfully picked up	Successfully Transferred	Successfully Aspirated	Relocated in 2ul droplet	Confirmed single target cell
1	25	21	17	17	17	16	14	13
2	19	15	12	12	12	12	12	11
3	19	15	15	15	15	15	12	12
Total	63	51	44	44	44	43	38	36
% of spiked cells	100%	81%	70%	70%	70%	68%	60%	57%
% of recovered cells		100%	86%	86%	86%	84%	75%	71%
% of attempted pickup			100%	100%	100%	98%	86%	82%

Supplementary table S2; Number of LNCaP cells spiked into 7.5 mL blood samples as well as the number and percentage of recovered, picked up, transferred, relocated and confirmed to be single target cells.