

Supplementary Table 1

Number and position of drop-in alleles in individual profiles, n=4 x=2 consensus profiles and pool-profiles of a blend of 4 amplifications obtained from mimicked strangulation mixtures (contact traces); A) 4 μ l PCR input, standard 3 kV 15s CE, B) 4 μ l PCR input, increased 9 kV 10s CE, C) 10 μ l PCR input, standard 3 kV 15s CE, B) 10 μ l PCR input, increased 9 kV 10s CE injection settings.

A	4 μ l PCR input standard CE	# of profiles	Total # of drop- ins	Drop-in position			
				Back (-1 repeat unit)	Forward (+1 repeat unit)	Between true alleles	Un- related
Individual profiles	16	16	8	3	1	1	3
Consensus profiles	4	4	0	0	0	0	0
Pool-profiles	4	4	0	0	0	0	0
B	4 μ l PCR input increased CE	# of profiles	Total # of drop- ins	Drop-in position			
				Back (-1 repeat unit)	Forward (+1 repeat unit)	Between true alleles	Un- related
Individual profiles	16	16	46	13	17	3	13
Consensus profiles	4	4	7	3	3	1	0
Pool-profiles	4	4	6	1	4	0	1
C	10 μ l PCR input standard CE	# of profiles	Total # of drop- ins	Drop-in position			
				Back (-1 repeat unit)	Forward (+1 repeat unit)	Between true alleles	Un- related
Individual profiles	16	16	33	6	15	7	5
Consensus profiles	4	4	7	1	3	2	1
Pool-profiles	4	4	2	0	1	1	0
D	10 μ l PCR input increased CE	# of profiles	Total # of drop- ins	Drop-in position			
				Back (-1 repeat unit)	Forward (+1 repeat unit)	Between true alleles	Un- related
Individual profiles	16	16	82	23	32	8	19
Consensus profiles	4	4	20	7	8	2	3
Pool-profiles	4	4	12	4	5	1	2