

Supplementary Table 2

Estimated number of contributors for STR profiles obtained from mimicked strangulation mixtures (contact traces between 2 volunteers) at varying PCR input and CE settings (standard 3 kV 15s and increased 9 kV 10s injection). Estimates were obtained using the maximum likelihood estimator.

	Estimated # of contributors											
	1				2				3			
	4μl input	4μl input 9kV	10μl input	10μl input 9kV	4μl input	4μl input 9kV	10μl input	10μl input 9kV	4μl input	4μl input 9kV	10μl input	10μl input 9kV
Individual profiles	6%	0%	0%	0%	94%	75%	75%	38%	0%	25%	25%	63%
Consensus profiles (n=4 x=2)	0%	0%	0%	0%	100%	75%	50%	0%	0%	25%	50%	100%
Pool-profiles (blend of 4)	0%	0%	0%	0%	100%	100%	100%	75%	0%	0%	0%	25%