













Body fluid	N	Number of positive samples				Number of
		L.crispatus	L.gasseri	S.salivarius	V.atypica	samples
Blood	20	0	0	0	0	-
Saliva	21	1	0	19	13	2
Semen	21	0	0	0	0	-
Vaginal fluid	14	8	9	0	0	1
Menstrual blood	14	8	8	0	0	3



Concluding remarks

- The multiplex PCR system, which allows combined use of 4 tDMRs for USP49, DACT1, L81528,PFN3, and 4 body fluid-specific bacteria markers for *L.crispatus, L.gasseri, S.salivarius, V.atypica*, could be used to discriminate blood, saliva, semen, and vaginal fluid-menstrual blood.
- Because developed multiplex system uses the same biological source of DNA for individual identification profiling and simultaneously analyzes various body fluids in one reaction, the method will facilitate more efficient body fluid identification in forensic casework.



