

FOR THE RECORD

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Allele Frequencies for Two STR Loci D5S2500, D10S676 in a Chinese Population

POPULATION: Chinese

KEYWORDS: forensic science, Han in Sichuan, China, DNA typing, short tandem repeats, polymerase chain reaction, population genetics, D5S2500, D10S676

TABLE 1—Allele frequencies of two STR loci in Chinese population.

D5S2500 (N = 119)		D10S676 (N = 120)	
Allele	Frequency	Allele	Frequency
9	0.004	14	0.252
10	0.017	15	0.466
11	0.269	16	0.209
12	0.197	17	0.039
13	0.046	18	0.034
14	0.059	-	-
15	0.311	-	-
16	0.080	-	-
17	0.017	-	-
total	1.000	total	1.000
HWE*	$p > 0.05$		$p > 0.05$

* Test for Hardy-Weinberg equilibrium.

Blood samples or buccal swabs were collected from unrelated individuals of Chinese Han ethnic group in eastern China after obtaining their informed consent. DNA was extracted using a Chelex method (1). The volume of PCR reaction for each locus was 37.5 μ L. The PCR products were analyzed by non-denaturing polyacrylamide gel electrophoresis and visualized by silver staining (2). Data were analyzed using POWERSTATS program (3). The genotype distribution was analyzed for Hardy-Weinberg equilibrium according to Hou's method (4) and no deviation from Hardy-Weinberg equilibrium was observed.

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TABLE 2—Population genetics and forensic parameters of two STR loci.

Locus	PIC	DP	Pm	CE	H _o
D5S2500	0.750	0.917	0.083	0.643	0.807
D10S676	0.620	0.834	0.166	0.408	0.650

PIC: polymorphism information content, DP: power of discrimination, Pm: probability of match, H_o: observed heterozygosity.

Table 1 and Table 2 contain the summary of allele frequencies and forensic values for the two STR loci, respectively. The complete data can be obtained from the authors on request to: yuzhengao@suda.edu.cn

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