

FOR THE RECORD

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Genetic Profile of Five STR Loci D2S1338, D8S1179, D14S306, D19S253 and D18S535 in a Chinese Population

POPULATION: Chinese

KEYWORDS: forensic science, DNA typing, short tandem repeat, population genetics D2S1338, D8S1179, D14S306, D19S253, D18S535, Northwest, China

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

Allele	Frequency				
	D2S1338	D8S1179	D14S306	D19S253	D18S535
7			0.0039	0.1938	
8			0.0000	0.0659	
9			0.0504	0.0233	
10		0.1085	0.1318	0.0620	0.1628
11		0.0814	0.2829	0.2093	0.0620
12		0.1318	0.2248	0.2558	0.0504
13		0.2015	0.1899	0.1473	0.0891
14		0.1977	0.1163	0.0426	0.2752
15	0.0116	0.1512			0.2481
16	0.0349	0.1085			0.1124
17	0.1085	0.0194			
18	0.1395				
19	0.1473				
20	0.0930				
21	0.0310				
22	0.1202				
23	0.1628				
24	0.1085				
25	0.0426				
HWE	0.3991	0.2343	0.2919	0.0889	0.0923
PIC	0.8799	0.8422	0.7843	0.8163	0.8031
DP	0.9686	0.9539	0.9301	0.9413	0.9316
EP	0.8815	0.8307	0.7524	0.7902	0.7618
H	0.8816	0.8495	0.7999	0.8209	0.8093

HWE: Test for Hardy-Weinberg equilibrium. PIC: polymorphism information content DP: power of discrimination. EP: power of exclusion. H: heterozygosity.

Blood samples were collected from 110 unrelated individuals of Chinese Han ethnic in northwest China. DNA was extracted

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using Chelex method (1). A total of 25 μ L reaction was set up and PCR amplification was performed in Perkin-Elmer GeneAmp PCR system 9600 Thermal cycler. The PCR products were analyzed by 6% denaturing polyacrilamide gel and visualized by silver staining (2). Population statistics data were analyzed by Computer programs-Power Stats V12.XLS (2). Exact test for Hardy-Weinberg equilibrium was performed by using the computer program GDA (3). No deviation from Hardy-Weinberg equilibrium was observed.

The complete dataset is available via electronic mail from communicating author at e-mail Tianyf18@mail.xjtu.edu.cn.

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