

## FOR THE RECORD

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# Allele Frequencies for Two STR Loci D1S1676, D2S2735 in Chinese Population

**POPULATION:** Chinese

**KEYWORDS:** forensic science, DNA typing, short tandem repeats, polymerase chain reaction, population genetics, D1S1676, D2S2735, Han in Sichuan, China

Blood samples were collected from unrelated individuals of Chinese Han ethnic group in Chengdu of China. DNA was extracted using Chelex method (1). PCR amplification conditions can be accessed at <http://www.legalmed.org/dna/d1s1676.htm>. The volume of PCR reaction for each locus was 37.5 µL. The PCR products were analyzed by horizontal non-denaturing polyacrylamide gel electrophoresis with discontinuous buffer system 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 1—Allele frequencies of two STR loci in Chinese population.

D1S1676 (N=101)		D2S2735 (N=120)	
Allele	Frequency	Allele	Frequency
11	0.015	9	0.004
12	0.069	10	0.129
13	0.233	11	0.154
14	0.178	12	0.213
15	0.163	13	0.188
16	0.178	14	0.208
17	0.134	15	0.079
18	0.030	16	0.025
Total	1.000	Total	1.000
HWE*	p>0.05		p>0.05

\* Test for Hardy-Weinberg equilibrium.

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

Locus	PIC	DP	Pm	CE	H <sub>o</sub>	H <sub>e</sub>	SE
D1S1676	0.81	0.947	0.053	0.481	0.733	0.836	0.0368
D2S2735	0.81	0.945	0.055	0.615	0.808	0.832	0.0341

\* PIC (polymorphism information content), DP (power of discrimination), Pm (probability of match), H<sub>o</sub> (observed heterozygosity), H<sub>e</sub> (expected heterozygosity), SE (standard error).

The complete data set can be accessed at <http://www.legalmed.org/dna/d1s1676.htm>.

## Reference

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