

FOR THE RECORD

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Allele Frequencies for Three STR Loci D2S2952, D3S1744, D12S1294 in Chinese Population

POPULATION: Chinese

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

D2S2952 (N = 115)		D3S1744 (N = 100)		D12S1294 (N = 115)	
Allele	Frequency	Allele	Frequency	Allele	Frequency
15	0.017	11	0.120	12	0.113
16	0.130	12	0.065	13	0.626
17	0.309	13	0.180	14	0.204
18	0.317	14	0.330	15	0.052
19	0.061	15	0.195	16	0.004
20	0.017	16	0.100		
21	0.026	17	0.005		
22	0.052	18	0.005		
23	0.057				
24	0.013				
Total	1.000	Total	1.000	Total	1.000
HWE*	$p > 0.05$		$p > 0.05$		$p > 0.05$

* Test for Hardy-Weinberg equilibrium.

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/d2s2952.htm> (2). The volume of PCR reaction for each locus was 37.5 μ L. The PCR products were analyzed by horizontal non-denaturing polyacrylamide gel electrophoresis with discontinuous buffer system and visualized by silver staining (2,3). Data were analyzed using POWERSTATS program (4). The genotype distribution was analyzed for Hardy-Weinberg equilibrium according to Hou's method (5) and no deviation from Hardy-Weinberg equilibrium was observed.

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

Locus	PIC	DP	Pm	CE	H _o	H _e
D2S2952	0.75	0.919	0.081	0.477	0.730	0.776
D3S1744	0.76	0.920	0.080	0.527	0.760	0.792
D12S1294	0.50	0.750	0.250	0.207	0.522	0.551

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

The complete data set can be accessed at <http://www.legalmed.org/dna/d2s2952.htm>.

References

- Walsh BS, Petzger DA, Higuchi R. Chelex-100 as medium for simple extraction of DNA for PCR-based typing from forensic material. *Biotechniques* 1991;10:506–10. [PubMed]
- Hou Y, Zhang J, Li YB, Wu J, Zhong SZ, Prinz M. Allele sequences of six new Y-STR loci and haplotypes in the Chinese Han population. *Forensic Sci Int* 2001;118:147–52. [PubMed]
- Allen CR, Graves G, Budowle B. Polymerase chain reaction amplification products separated on rehydratable polyacrylamide gels and stained with silver. *Biotechniques* 1990;7:736–44.
- <http://www.promega.com>.
- Hou Y, Prinz M, Staak M. Comparison of different tests for deviation from Hardy-Weinberg equilibrium of AMPFLP population data. In: Bar W, Fiori A, Rossi U, editors. *Advances in forensic haemogenetics* 5. Berlin: Springer-Verlag, 1994;511–4.

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