

## FOR THE RECORD

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# Allele Frequencies for Two STR Loci GATA31E08 and DXS6809 in Chinese Population

**POPULATION:** Chinese

**KEYWORDS:** forensic science, Han in Sichuan, China, DNA typing, short tandem repeats, polymerase chain reaction, population genetics, GATA31E08, DXS6809

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

Allele	GATA31E08			DXS6809			
	Male (N = 120)	Female (N = 80)	Total Frequency	Male (N = 120)	Female (N = 80)	Total Frequency	
6	10.0%	5.60%	7.50%	30	1.70%	1.90%	1.80%
7	4.20%	1.90%	2.90%	32	12.5%	14.4%	13.6%
8	19.2%	23.1%	21.4%	33	10.0%	15.0%	12.9%
9	28.3%	30.0%	29.3%	34	22.5%	23.1%	22.9%
10	25.8%	31.9%	29.3%	35	19.2%	15.6%	17.1%
11	10.8%	6.30%	8.20%	36	16.7%	15.0%	15.7%
12	1.70%	1.30%	1.40%	37	13.3%	11.3%	12.1%
				38	3.30%	3.10%	3.20%
				39	0.80%	0.60%	0.70%
Total	100%	100%	100%	Total	100%	100%	100%

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/DXS6809.htm> (2). The volume of PCR reaction for each locus was 37.5  $\mu$ 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).

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

Locus	PIC	PDM	PDF	PE1	PE2	MEC
GATA31E08	0.700	0.792	0.894	0.733	0.590	0.662
DXS6809	0.820	0.840	0.955	0.823	0.685	0.754

PIC: polymorphism information content; PDM: power of discrimination in males; PDF: power of discrimination in females; PE1: power of exclusion in trio; PE2: power of exclusion in duo; MEC: mean exclusion chance.

The complete data can be accessed at <http://www.legalmed.org/dna/DXS6809.htm>.

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