



เมื่อคำนวณค่ากำลังการตัดออกสำหรับกรณีของ no parent และ one parent มีค่าเท่ากับ 0.3477 และ 0.5265 ตามลำดับ และค่ากำลังการแยกแยะมีค่าเท่ากับ 0.8939



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<b>Thesis Title</b>	Allele Frequencies of Microsatellite DNA on X-chromosome locus DXS7132 in a Population from Northern Thailand
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### ABSTRACT

The X-Chromosomal microsatellite DNA is very useful for some complex kinship testing e.g. female sibling testing when the father is not available, but also for conventional mother and child testing.

On this study the X-Chromosomal DXS7132 locus was investigated. Buccal cells from 120 unrelated Northern Thai females were collected for DNA extraction and DNA was amplified using the polymerase chain reaction. The amplicons were separated by polyacrylamide gel electrophoresis and visualized by silver staining. All alleles in each sample were typed against the pool of known alleles (allelic ladder) to designate the genotypes.

Seven DXS7132 alleles from 11 to 17 were found, allele frequency ranged from 0.0042 (allele 11, 17) to 0.3708 (allele 14). The average power of exclusion (in no parent and one parent cases) and the power of discrimination (PD) were calculated to be 0.3477, 0.5265 and 0.8939 respectively.