ISSN 0972-0073

THE ANTHROPOLOGIST

International Journal of Contemporary and Applied Studies of Man

PRINT: ISSN 0972-0073 ONLINE: ISSN 2456-6802

Anthropologist, 2(3): 199-202 (2000)
DOI: 10.31901/24566802.2000/02.03.12

Determination of ESD Isozymes in Human Blood, Semen and Vaginal Secretion: Allelic Frequencies in Delhi Population

Arun Sharma[1], V. K. Arora[2], M. P. Sachdeva[3] and V. Bhalla[4]

[1]State Forensic Science Laboratory, Junga, Shimla 173 216, Himachal Pradesh, India
[2]National Institute of Criminology and Forensic Science, Rohini, Delhi 110 085, India
[3]Department of Anthropology, University of Delhi, Delhi 110 007, India
[4]Department of Anthropology, Punjab University, Chandigarh 164 014, India

KEYWORDS Semen. Vaginal Secretion. Polymorphism. Allelic Frequencies. Stability Studies. Stains

ABSTRACT Isoenzyme band patterns of esterase D have been studied in blood, vaginal swabs free from semen, seminal fluid and their stains. ESD polymorphism was demonstrated in all body fluids tested. One hundred and sixty two blood samples were analysed using starch agarose gel electrophoresis technique and the gene frequencies were estimated as *ESD*1*= 0.765 and *ESD*2* = 0.235. Stability studies carried out under different climatic conditions have revealed that the genetic marker is more stable in blood stains than in stains of semen and vaginal secretion.