

STR Analysis for Human Cell Line Authentication

DNA is isolated from human cells. 10 ng of DNA is used to perform PCR amplification with the GenePrint 10 System [protocol](#) (Promega; B9510). The product is then analyzed on a ThermoFisher SeqStudio Flex System. Data is analyzed using the GeneMarker v2.6 software by SoftGenetics. The GenePrint 10 System reports the copy numbers of eight STRs (TH01, TPOX, vWA, CSF1PO, D16S539, D7S820, D13S317, D5S818), D21S11 for trisomy analysis, and Amelogenin for gender identification.