

Molecular Characterization of Ardi Goat Assisted by Microsatellite Markers

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Abstract : Hundred uncorrelated animal and thirty six markers were used in this study to study the molecular characterization of Saudi native Ardi goat (BM18189, ILSTS030, INRA005, OarFCB48, BM2113, ILSTS033, INRA023, RM088, CSRD247, ILSTS034, INRA063, SRCRSP1, ILSTS002, ILSTS044, INRA172, SRCRSP5, ILSTS005, ILSTS049, MAF70, SRCRSP8, ILSTS011, ILSTS058, OarAE54, SRCRSP9, ILSTS019, ILSTS059, OARCP34, TGLA53, ILSTS022, ILSTS082, OARE129, TGLA73, ILSTS029, ILSTS087, OARE193, and RM004). Ardi goat showed high variability. The mean number of alleles per locus ranged from 5 in SRCRSP1 locus to 13.5 in CSRD247 locus. Gene diversities varied within a wide range, from 0.53 in ILSTS002 locus to 0.86 in RM088 locus. Hardy-Weinberg equilibrium was tested in order to evaluate the significance of inbreeding occurring in each locus in Ardi population. Only SRCRSP9, INRA005, ILSTS030 loci showed significance in this way.

Keywords : molecular characterization, microsatellite markers, Ardi goats, Hardy-Weinberg equilibrium

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