Table 1. Goat breeds details

|  |  |
| --- | --- |
| **Breed** | **N.** |
| *Anglo-Nubian* | 14 |
| *Saanen* | 14 |

Table 2. List of primers used in the PCR mixture

|  |  |
| --- | --- |
| System | Primer |
| A3-O1 | BT33 5’-gatattgggagtgaatcaactgag-3’BT66 5’-ctcacttgacgaactgcttccagc-3’ |
| A2-O | BT25 5’-gaagatgtgccctctgagcgttac-3’BT60 5’-ctctttcatactgtgaagttgttc-3’ |
| System 3 | BT51 5’-gagaacatcaatgaactgatgaag-3’BT32 5’-cagctggggcacgttgtattttttcag-3’ |
| System 5 | BT25 5’-gaagatgtgccctctgagctgtac-3’BT74 5’-cagatggggcacgttgtattttttcag-3’ |
| B3-C | BT66 5’-actcactggagagagtccttggat-3’BT97 5’-gtggctgttgctcttgccaggcc-3’ |
| A0-A1-D | BT65 5’-ctcagggtagaagtaggccag-3’BT36 5’-gaacaacttcacagtatgaaagag-3’ |
| Allele E | BT99 5’-ctatcatgtcaaaccattctatcc-3’BT72 5’- caatttcacttaaggatgttacac-3’ |
| Allele F | BT58 5’-aagtttcatggttgtcaagat-3’BT73 5’-gaattccttgatcatcaacccagc-3’ |

Table 3. Gene polymorphism detecting of different breeds of adult goats

|  |  |
| --- | --- |
| Breed | Alleles |
| **A** | **B** | **C** | **D** | **E** | **F** |
| *Anglo-Nubian* (n=14) | √ | √ | √ | X | X | X |
| *Saanen* (n=14) | √ | √ | √ | X | X | √ |

Table 4. Molecular weight value (Kilodaltons) of goats

|  |  |
| --- | --- |
| Allele Breed | Mean ±SD |
| Allele A | *Anglo-Nubian* (n=14) | 38.47±72.52 |
| *Saanen* (n=14) | 40.26±64.59 |
| Allele B | *Anglo-Nubian* (n=14) | 71.44±98.23 |
| *Saanen* (n=14) | 29.16±28.74 |
| Allele C | *Anglo-Nubian* (n=14) | 112.16±98.89 |
| *Saanen* (n=14) | 100.81±96.40 |
| Allele F | *Anglo-Nubian* (n=14) | 0.00±0.00 |
| *Saanen* (n=14) | 110.18±89.66 |

Table 5. Frequency value (%) of goat breeds

|  |  |
| --- | --- |
| Allele Breed | Frequency ±SD |
| Allele A | *Anglo-Nubian* (n=14) | 62.75±33.93 |
| *Saanen* (n=14) | 66.51±29.20 |
| Allele B | *Anglo-Nubian* (n=14) | 51.87±39.40 |
| *Saanen* (n=14) | 69.33±26.12 |
| Allele C | *Anglo-Nubian* (n=14) | 27.77±30.34 |
| *Saanen* (n=14) | 39.62±19.20 |
| Allele F | *Anglo-Nubian* (n=14) | 0.00±0.00 |
| *Saanen* (n=14) | 21.92±36.19 |