Supplementary Table 1. Sampling of populations/breeds object of this study

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| **POPULATIONS/BREEDS** | **FARM** | **SAMPLES NUMBER** |
| GRIGIA CIOCIARA (GC) | 1 | 5 |
| 2 | 6 |
| 3 | 5 |
| 4 | 3 |
| 5 | 5 |
| BIANCA MONTICELLANA (BM) | 1 | 6 |
| 2 | 2 |
| 3 | 4 |
| 4 | 6 |
| 5 | 6 |
| CAPESTRINA (CP) | 1 | 1 |
| 2 | 1 |
| 3 | 3 |
| 4 | 4 |
| 5 | 1 |
| 6 | 10 |
| FULVA DEL LAZIO (FL) | 1 | 1 |
| 2 | 6 |
| 3 | 14 |
| FACCIUTA DELLA VALNERINA (FV) | 1 | 1 |
| 2 | 2 |
| 3 | 1 |
| 4 | 2 |
| 5 | 2 |
| 6 | 2 |
| 7 | 2 |
| 8 | 3 |
| 9 | 3 |
| TERAMANA (TE) | 1 | 16 |
| 2 | 8 |
| GARGANICA (GA) | 1 | 5 |
| 2 | 3 |
| 3 | 3 |
| 4 | 2 |
| 5 | 2 |
| 6 | 4 |
| 7 | 2 |
| 8 | 3 |
| GRIGIA MOLISANA (GM) | 1 | 10 |
|  | 2 | 8 |
| **COSMOPOLITAN BREEDS** | **FARM** | **SAMPLES NUMBER** |
| ALPINE (AL) | 1 | 10 |
| 2 | 17 |
| SAANEN (SA) | 1 | 8 |
| 2 | 11 |