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## DNA PROFILE CERTIFICATE

### General Information:

| Test Animal      |               |
|------------------|---------------|
| ANIMAL ID/NAME   | TOR 17 0251   |
| MICROCHIP NUMBER | Not Provided  |
| SPECIES          | CATTLE        |
| GENDER           |               |
| OWNER            |               |
| LAB. NO          | ZOBOS19-00609 |

### DNA Profiling Results:

| STR Marker | Allele 1 | Allele 2 |
|------------|----------|----------|
| TGLA227    | 93       | 99       |
| BM2113     | 125      | 137      |
| TGLA053    | 164      | 188      |
| ETH10      | 211      | 221      |
| ILSTS011   | 266      | 268      |
| SPS113     | 143      | 153      |
| RM067      | 90       | 92       |
| TGLA126    | 115      | 117      |
| TGLA122    | 137      | 143      |
| INRA023    | 206      | 208      |

| STR Marker | Allele 1 | Allele 2 |
|------------|----------|----------|
| BM1818     | 264      | 266      |
| ETH003     | 117      | 125      |
| ETH225     | 148      | 160      |
| BM1824     | 180      | 182      |
| SPS115     | 248      | 254      |
| CSRM060    | 110      | 110      |
| MGTG4B     | 133      | 149      |
| CSSM066    | 185      | 189      |
| ILSTS006   | 288      | 294      |

The DNA profile represents the standardised alleles for the 12 International Society for Animal Genetics (ISAG, 2016) recommended markers. These alleles were obtained from STR analysis by capillary electrophoresis. The DNA profile includes additional markers as recommended by the Food and Agriculture Organization of the United Nations (FAO) for routine bovine parentage testing and identification.

20 August 2019