Supplementary Table 1: Reads per sample of captive ungulates at the NZG/SANBI

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| **Sample information** | | | **NGS DATA** | | | **NGS classification** | |
| No# | Lab Number | Animal Species | # of fwd read | # of rev read | Total number of reads | Genus | Species |
| 1 | N40\_S19 | Sable antelope (*Hippotragus niger*) | 26803 | 27839 | 54642 | *Haemonchus* and unidentified | *Haemonchus contortus* and unidentified |
| 2 | UNG20\_S21 | Arabian oryx (*Oryx leucoryx*) | 30931 | 33041 | 63972 | *Haemonchus, Trichostrongylus,* and unidentified | *Haemonchus contortus, Trichostrongylus colubriformis,* and unidentified |
| 3 | UNG27\_S22 | Sable antelope (*Hippotragus niger*) | 31573 | 32571 | 64144 | *Haemonchus* and unidentified | *Haemonchus contortus* and unidentified |
| 4 | UNG54\_S23 | Sable antelope (*Hippotragus niger*) | 14185 | 15121 | 29306 | *Haemonchus* and unidentified | *Haemonchus contortus* and unidentified |
| 5 | UNG55\_S24 | Sable antelope (*Hippotragus niger*) | 21620 | 22198 | 43818 | *Haemonchus, Trichostrongylus,* and unidentified | *Haemonchus contortus, Trichostrongylus colubriformis,* and unidentified |
| 6 | UNG68\_S25 | Sable antelope (*Hippotragus niger*) | 13095 | 13543 | 26638 | *Haemonchus* and unidentified | *Haemonchus contortus* and unidentified |
| 7 | UNG71\_S26 | Blue duiker (*Philantomba monticola*) | 27517 | 28989 | 56506 | *Haemonchus* and unidentified | *Haemonchus contortus* and unidentified |
| 8 | UNG72\_S27 | Sable antelope (*Hippotragus niger*) | 16335 | 17282 | 33617 | *Haemonchus, Trichostrongylus,* and unidentified | *Haemonchus contortus, Trichostrongylus colubriformis,* and unidentified |
| 9 | UNG146\_S28 | Sable antelope (Hippotragus niger) | 9573 | 9681 | 19254 | *Haemonchus* and unidentified | *Haemonchus contortus* and unidentified |
| 10 | UNG147\_S29 | Sable antelope (Hippotragus niger) | 19590 | 20940 | 40530 | *Trichostrongylus and Haemonchus* | *Haemonchus contortus, Trichostrongylus colubriformis* and unidentified |
| 11 | UNG153\_S30 | Roan antelope (Hippotragus equinus) | 17693 | 18536 | 36229 | *Haemonchus* and unidentified | *Haemonchus contortus* and unidentified |
| 12 | UNG170\_S33 | Eland (Tragelaphus oryx) | 46197 | 49343 | 95540 | *Haemonchus, Trichostrongylus* and unidentified | *Haemonchus contortus, Trichostrongylus colubriformis,* and unidentified |
| 13 | UNG174\_S32 | Sable antelope (Hippotragus niger) | 36750 | 41178 | 77928 | *Haemonchus* and unidentified | *Haemonchus contortus* and unidentified |

\*The nucleotide sequence data reported are available in the NCBI GenBank databases under the BioSample accessions number (SAMN42574826 – SAMN42574838),  and SRA accession number PRJNA1137257.