**Supplementary Table 1**

# **Evaluation of commercially available Sika deer and Red deer *Penis et testis cervi* samples collected from different cities in China using the two-step with species-specific PCR and PCR-RFLP patterns**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Serial No.** | **Species and size (n=2)** | **Source** | **Results identified by species-specific PCR** | **Results identified by**  **PCR-RFLP** | **Results identified in morphology** |
| S1 | Red deer | Jilin Province, China | Authentic | Red deer | Authentic |
| S2 | Red deer | Jilin Province, China | Authentic | Red deer | Authentic |
| S3 | Red deer | Jilin Province, China | Authentic | Red deer | Authentic |
| S4 | Red deer | Jilin Province, China | Authentic | Red deer | Authentic |
| S5 | Red deer | Jilin Province, China | Authentic | Red deer | Authentic |
| S6 | Red deer | Liaoning Province, China | Authentic | Sika deer | Authentic |
| S7 | Red deer | Liaoning Province, China | Authentic | Red deer | Authentic |
| S8 | Red deer | Liaoning Province, China | Authentic | Red deer | Authentic |
| S9 | Red deer | Liaoning Province, China | Authentic | Red deer | Authentic |
| S10 | Red deer | Liaoning Province, China | Authentic | Red deer | Authentic |
| S11 | Red deer | Helongjiang Province, China | Authentic | Red deer | Authentic |
| S12 | Red deer | Helongjiang Province, China | Authentic | Red deer | Authentic |
| S13 | Red deer | Helongjiang Province, China | Authentic | Red deer | Authentic |
| S14 | Red deer | Helongjiang Province, China | Authentic | Red deer | Authentic |
| S15 | Red deer | Helongjiang Province, China | Authentic | Red deer | Authentic |
| S16 | Sika deer | Jilin Province, China | Authentic | Red deer | Authentic |
| S17 | Sika deer | Jilin Province, China | Authentic | Sika deer | Authentic |
| S18 | Sika deer | Jilin Province, China | Authentic | Sika deer | Authentic |
| S19 | Sika deer | Jilin Province, China | Authentic | Sika deer | Authentic |
| S20 | Sika deer | Jilin Province, China | Authentic | Sika deer | Authentic |
| S21 | Sika deer | Liaoning Province, China | Authentic | Sika deer | Authentic |
| S22 | Sika deer | Liaoning Province, China | Authentic | Sika deer | Authentic |
| S23 | Sika deer | Liaoning Province, China | Authentic | Sika deer | Authentic |
| S24 | Sika deer | Liaoning Province, China | Authentic | Sika deer | Authentic |
| S25 | Sika deer | Liaoning Province, China | Authentic | Sika deer | Authentic |
| S26 | Sika deer | Helongjiang Province, China | Authentic | Sika deer | Authentic |
| S27 | Sika deer | Helongjiang Province, China | Authentic | Sika deer | Authentic |
| S28 | Sika deer | Helongjiang Province, China | Authentic | Sika deer | Authentic |
| S29 | Sika deer | Helongjiang Province, China | Authentic | Sika deer | Authentic |
| S30 | Sika deer | Helongjiang Province, China | Authentic | Sika deer | Authentic |

**Footnote:**

S, sale on the market；PCR, polymerase chain reaction；RFLP，restriction fragment length polymorphism