**A Rapid Multiplex PCR Assay for Presumptive Species Identification of Rhinoceros Horns and its Implementation in Vietnam**

**Supporting Information**

Kyle M. Ewart, Greta J. Frankham, Ross McEwing, Dang Tat The, Carolyn J. Hogg, Claire Wade, Nathan Lo, Rebecca N. Johnson

**S1 Table. Sample details and multiplex PCR species ID assay trial results during the developmental stage, and the subsequent field test results at IEBR.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sample:** | **Species:** | **Sample origin:** | **Sample type:** | **Sample use:** | **Multiplex PCR assay result:** |
| M.47175.001 | *Diceros bicornis* (black rhino) | Seized specimen | Horn | Development stage trial | Black rhino |
| M.47195.001 | *Diceros bicornis* (black rhino) | Zoo collection | Horn | Development stage trial | Black rhino |
| M.47204.001 | *Diceros bicornis* (black rhino) | Zoo collection | Blood | Development stage trial | Black rhino |
| M.47156.001 | *Ceratotherium simum* (white rhino) | Zoo collection | Horn | Development stage trial | White rhino |
| M.47183.001 | *Ceratotherium simum* (white rhino) | Zoo collection | Horn | Development stage trial | White rhino |
| M.47187.001 | *Ceratotherium simum* (white rhino) | Zoo collection | Hair | Development stage trial | White rhino |
| M.39432.005 | *Rhinoceros unicornis* (Indian rhino) | Museum collections | Tissue | Development stage trial | Indian rhino |
| M.43472.001 | *Rhinoceros unicornis* (Indian rhino) | Museum collections | Horn | Development stage trial | Indian rhino |
| M.47176.001 | *Rhinoceros unicornis* (Indian rhino) | Seized specimen | Horn | Development stage trial | Indian rhino |
| M.39432.003(a) | *Rhinoceros unicornis* (Indian rhino) | Museum collections | Skull | Development stage trial | Indian rhino |
| WGM105\_02 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| WGM105\_03 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| WGM105\_04 | Unknown | IEBR seized specimen | Horn | Field test | Black rhino |
| WGM105\_05 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| WGM105\_06 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| WGM105\_07 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| WGM105\_08 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| WGM105\_09 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| WGM105\_11 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| WGM105\_12 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| WGM105\_13 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| WGM105\_14 | Unknown | IEBR seized specimen | Horn | Field test | Black rhino |
| WGM105\_15 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| WGM105\_17 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| WGM105\_18 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| WGM105\_19 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| WGM105\_20 | Unknown | IEBR seized specimen | Horn | Field test | Fail |
| WGM105\_22 | Unknown | IEBR seized specimen | Horn | Field test | Black rhino |
| WGM105\_23 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| WGM105\_24 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| WGM105\_26 | Unknown | IEBR seized specimen | Horn | Field test | Fail |
| WGM105\_27 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| WGM105\_28 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| WGM105\_29 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| WGM105\_31 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| WGM105\_32 | Unknown | IEBR seized specimen | Horn | Field test | Fail |
| WGM105\_33 | Unknown | IEBR seized specimen | Horn | Field test | Fail |
| WGM105\_34 | Unknown | IEBR seized specimen | Horn | Field test | Fail |
| WGM105\_35 | Unknown | IEBR seized specimen | Horn | Field test | Fail |
| WGM105\_36 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| WGM105\_37 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| WGM105\_38 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| WGM105\_39 | Unknown | IEBR seized specimen | Horn | Field test | Black rhino |
| WGM105\_40 | Unknown | IEBR seized specimen | Horn | Field test | Fail |
| TG01 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| TG02 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| TG03 | Unknown | IEBR seized specimen | Horn | Field test | Black rhino |
| TG04 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| TG05 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| TG06 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| TG07 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| TG10 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| TG11 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| TG12 | Unknown | IEBR seized specimen | Horn | Field test | Black rhino |
| TG13 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| TG14 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| TG16 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| TG17 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| TG18 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| TG19 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| TG20 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| TG21 | Unknown | IEBR seized specimen | Horn | Field test | Fail |
| TG22 | Unknown | IEBR seized specimen | Horn | Field test | Fail |
| TG23 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| TG25 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| TG26 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| TG27 | Unknown | IEBR seized specimen | Horn | Field test | Fail |
| TG28 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| TG30 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |
| TG31 | Unknown | IEBR seized specimen | Horn | Field test | White rhino |