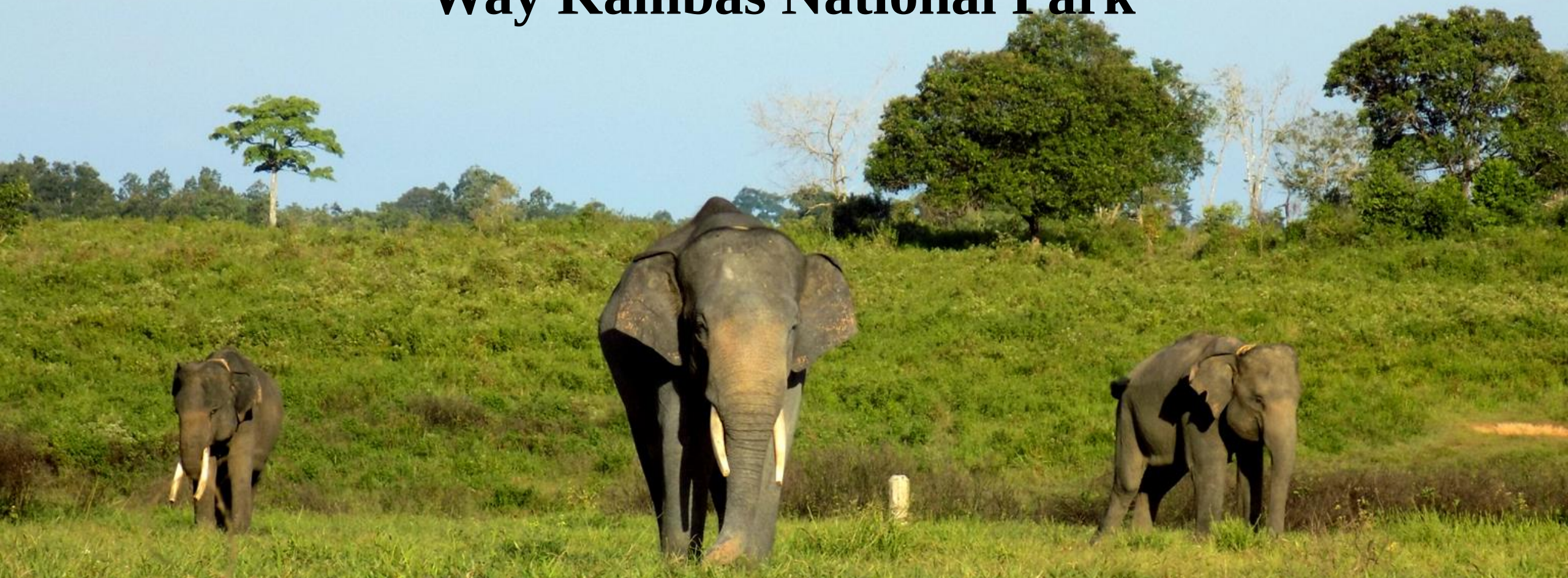




Elephant Training Center (ETC), Way Kambas National Park



- ☐ Elephant Training Center, Way Kambas National Park
- ☐ 65 Elephants were in ETC due to conflict with local people and breeding in ETC itself.



Comparative Study on DNA Extraction's Qualitative Analysis of Captive Sumatran Elephant in Elephant Training Center, Way Kambas National Park

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METHODS

- Partisipative Observation
- Elephant Hospital Prof. Dr. Ir. H. Rubini Atmawidjaja ETC, Way Kambas NP
- 53 Blood samples of 23 females and 30 males (Rustiati *et al.*, 2017).
- DNA Extraction referred to extraction protocol QIAGEN DNeasyR Blood & Tissue Kit
- Biotechnology Laboratory of the Veterinary Institute Lampung



AIM

- obtaining comparative data from DNA extraction of sumatran elephants in PLG TNWK using simple and molecular techniques with primary Glyceraldehyde-3-phosphate dehydrogenase (GAPDH)



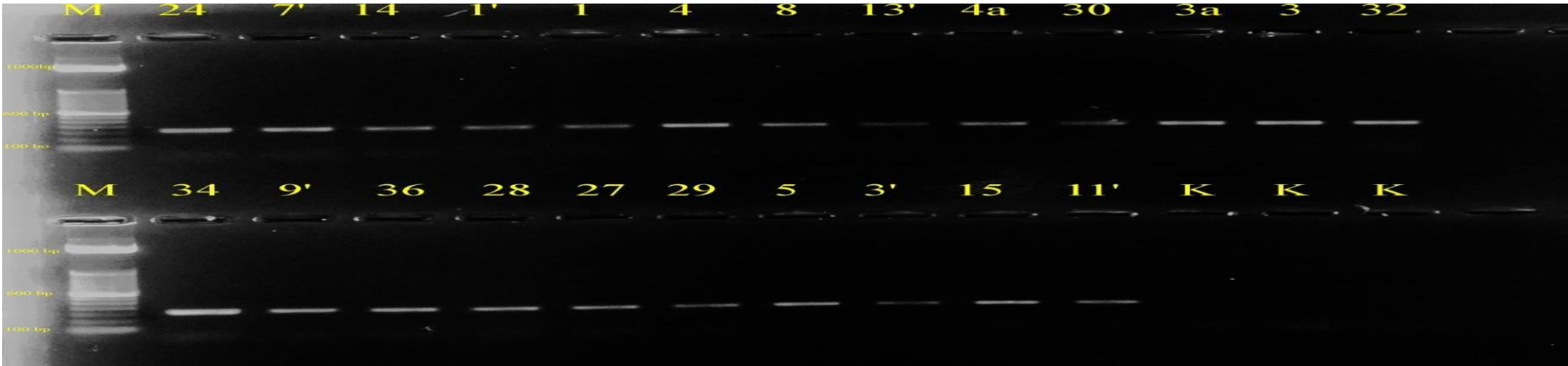


**- Simple DNA Quality Test –
1% agarose gel electrophoresis in the TAE buffer
(Tris-Acetate-EDTA),**

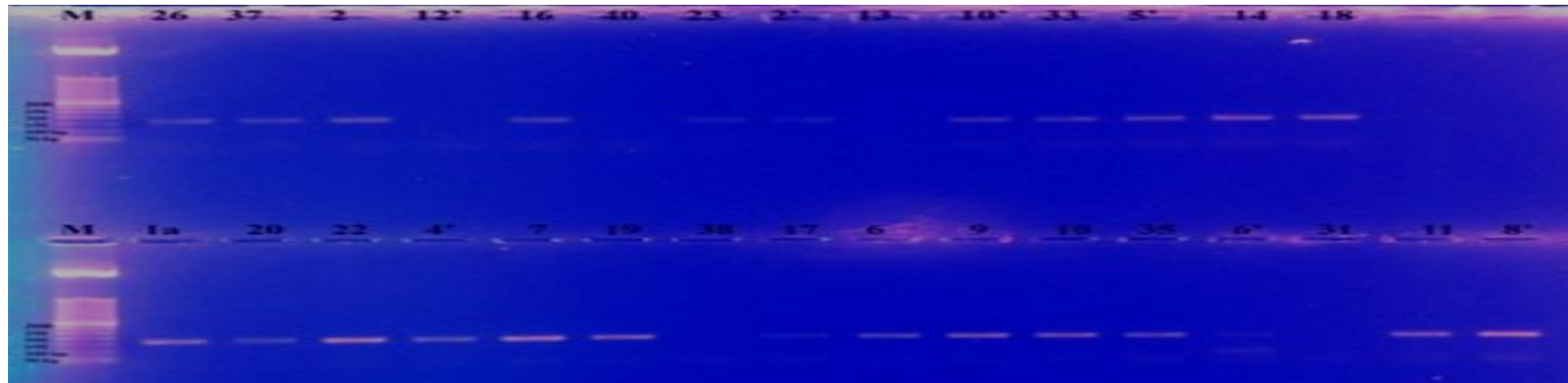
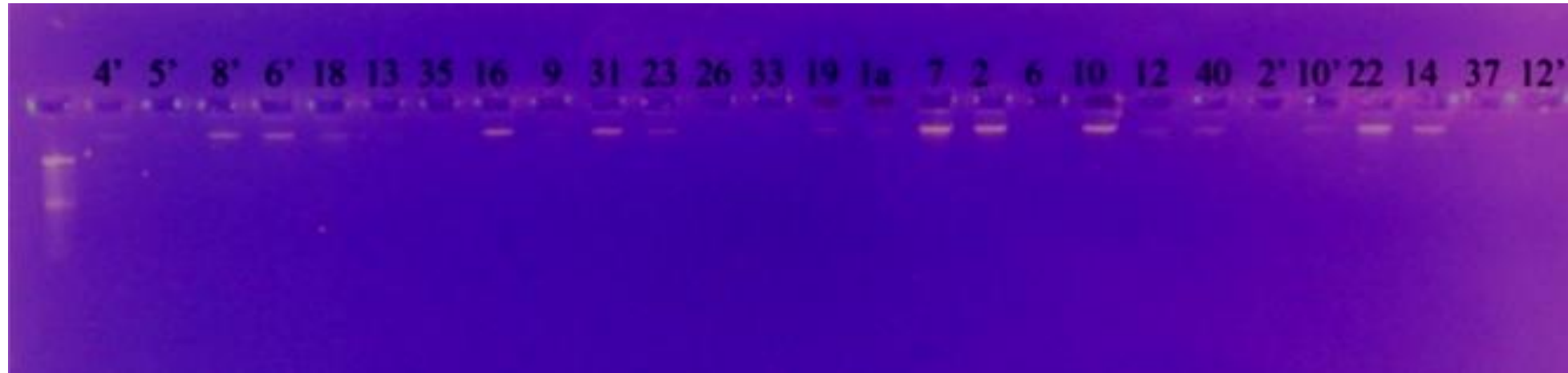
**-Electrophoresis based on PCR product-
Polymerase Chain Reaction (PCR) technique with
Glyseraldehyde-3-Phosphate Dehydrogenase
(GAPDH) primer**



DNA Quality test on females' blood samples



DNA Quality test on males' blood samples



CONCLUSION

- The simple electrophoresis showed 67.92 % positive samples, while the second method showed 100% positive samples.
- The electrophoresis based on PCR product, was more sensitive detected the DNA from blood of each captive elephant.



Acknowledgment



Way Kambas National Park



Kemeristekdikti



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