

VIABILITY OF THE PRRS VIRUS CONTAINED IN A LIVE ATTENUATED VACCINE AFTER ITS COMBINATION WITH AN INACTIVATED VACCINE AGAINST GLÄSSER DISEASE

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INTRODUCTION

Immunization plans in sows are already crowded by multiple injections of vaccines. Practices like combination of vaccines are sometimes adopted in field to overcome this problem; when not licensed, this might jeopardize the safety and efficacy of the vaccines. Inactivated vaccines may contain preservatives and other compounds that might compromise the viability of live attenuated vaccines after their combination; as a consequence, the efficacy of this might altered.

This study aims to evaluate the *in vitro* viability of a PRRSv live attenuated vaccine after its combination with an inactivated vaccine against Glässer disease.

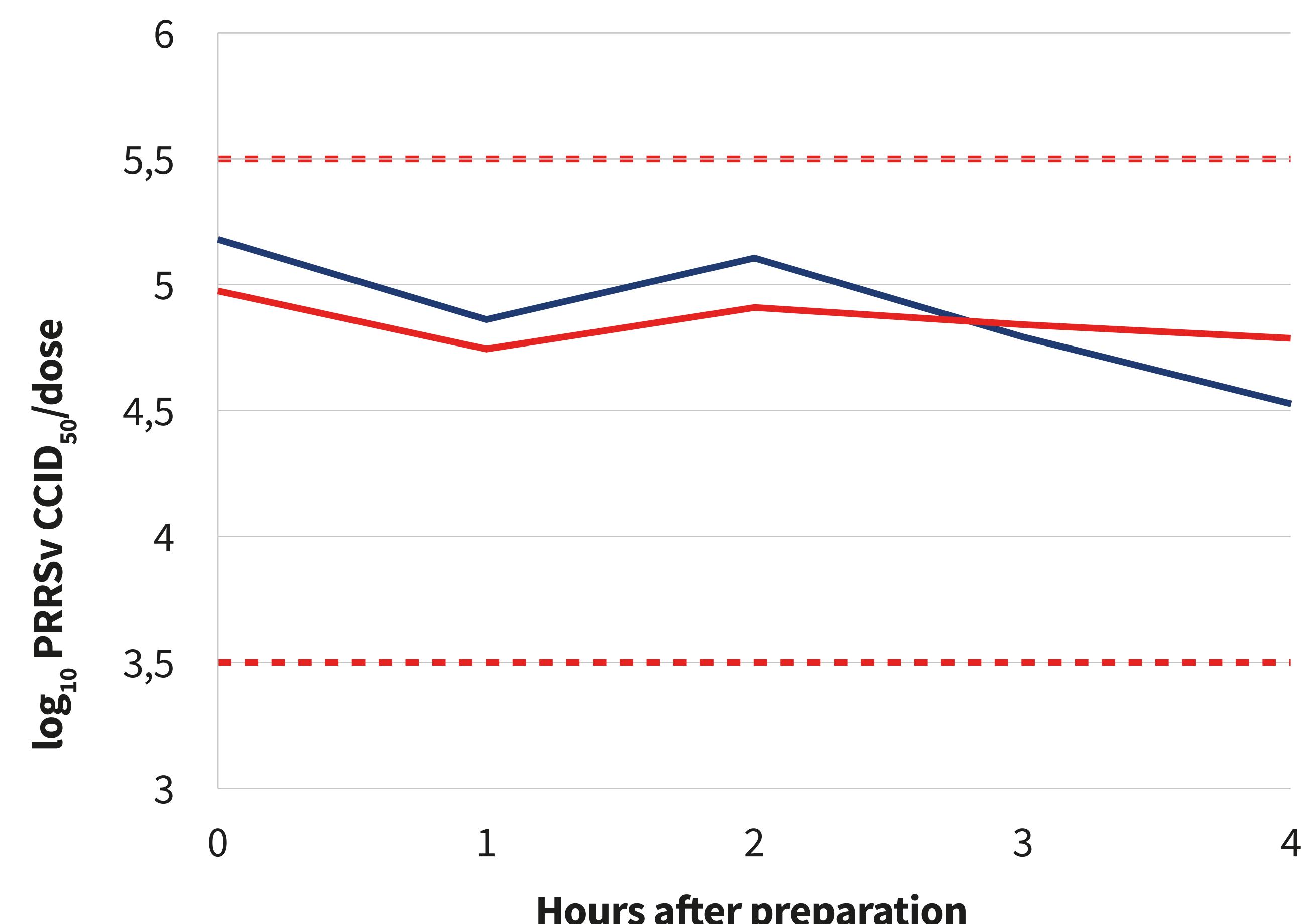


Figure 1. PRRSv viability expressed as \log_{10} . CCID₅₀ after (a) the preparation of the PRRS vaccine with its own solvent (blue line, control) or (b) the combination of the PRRS vaccine with the Glässer vaccine (orange line, test combination). Red lines represent the minimum and maximum titers of live virus specified by the PRRS vaccine manufacturer.

DISCUSSION

Results suggested that the non-licensed combination of the studied PRRS and Glässer vaccines does not compromise *in vitro* the viability of the live attenuated virus contained in the former. In particular, the viability of PRRSv was maintained during the entire in-use stability of the product after combination of vaccines. Further studies in animals with several vaccine batches are needed to evaluate the safety and efficacy of the combination of these products.

CONCLUSIONS

The PRRS virus contained in UNISTRAIN® PRRS remains viable *in vitro* after combination with HIPRASUIS® GLÄSSER up to 4 hours of in-use stability.

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REFERENCES

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