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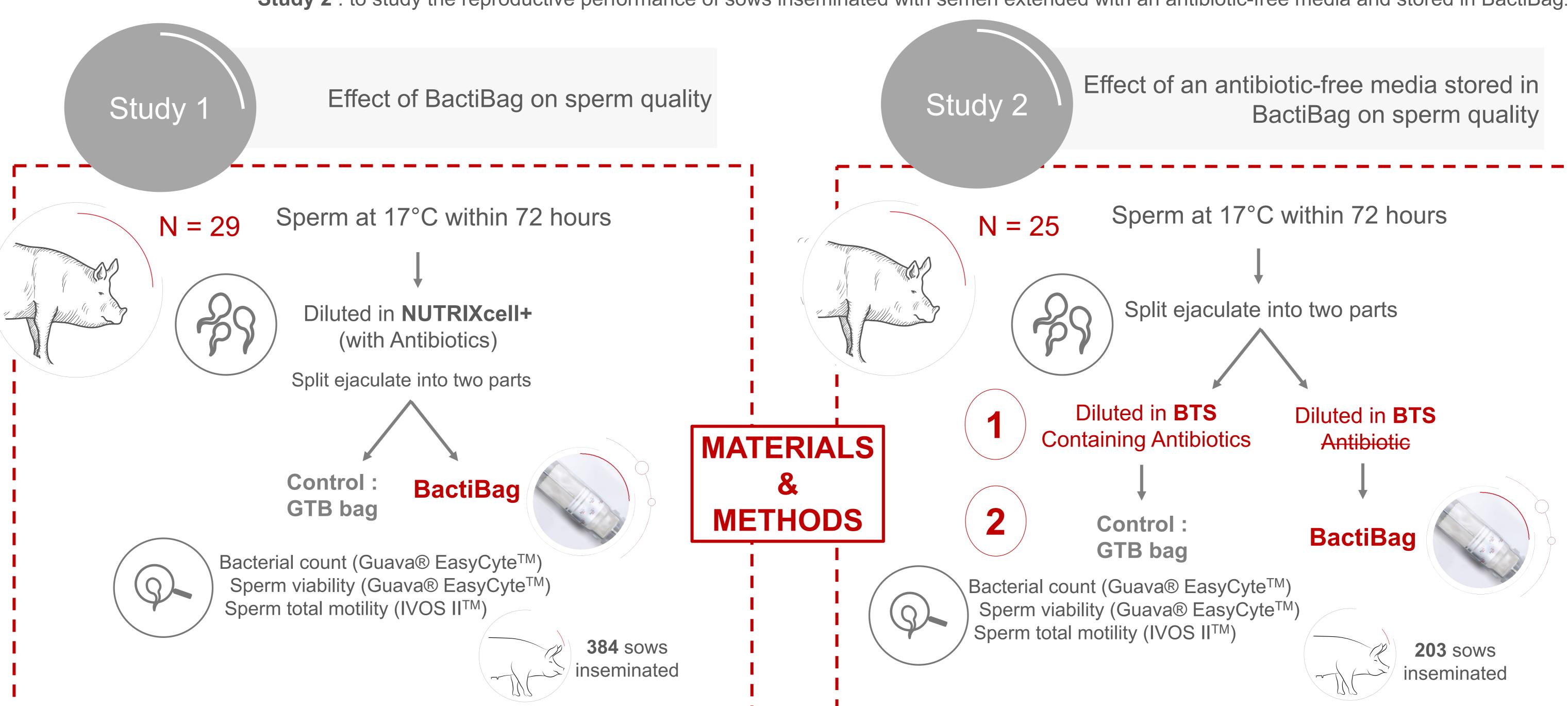




Bacterial growth control during swine semen production is a challenge for Semen Processing Centers. Raw ejaculates are processed at temperatures favorable for microbial multiplication. Prophylactic antibiotics addition to semen extender prevents undesirable bacterial growth. This use enhances the risk of selecting bacterial resistance to antibiotics. IMV-Technologies takes advantage of commonly used bacteriostatic molecules in plastics compositions to include it into the semen bag: BactiBag. This could allow inhibition of bacterial growth and prevents release of lipopolysaccharides inherent to bacterial death.

OBJECTIVE 7

To test the performances of BactiBag in **field conditions**, two consecutive studies were carried out. **Study 1**: to assess whether BactiBag affects semen quality and reproductive performances. **Study 2**: to study the reproductive performance of sows inseminated with semen extended with an antibiotic-free media and stored in BactiBag.



Statistics

Statistical analyses have been performed using SAS® (SAS Institute Inc, Cary, NC, USA), version 9.1.4. For continuous variables, a Mixed Model Analysis of Variance was used. The farrowing rate was analysed using Fisher-Exact Test suing a Chi-Square probability distribution.

The results are presented as Least Square Means (LSM) ± standard errors and its 95% Confidence Interval (CI).

