



UNIVERSITY OF
NEWCASTLE



SPERM SAFE

Revolutionary Stallion Semen Storage Technology

SpermSafe is a research-developed sperm storage medium extending the fertility lifespan of stallion semen from 24-48 hours to up to 14 days, with no loss in pregnancy rates compared to fresh semen. This low-tech, high-performance alternative to cryopreservation offers significant potential for both artificial insemination and natural mating in the high-value Thoroughbred industry.

PARTNERSHIP CAPABILITIES

- Extended semen shelf-life for flexible transport and scheduling
- Protein-free formulation with antioxidants supporting sperm viability
- Reduced post-breeding inflammation in mares
- Trade secret formulation validated through decade of studies and trials

PROVEN IMPACT

- Extends stallion semen fertility lifespan from 24-48 hours to 14 days with no pregnancy rate loss
- Reduces AI or natural breeding attempts by up to 25% per pregnancy, increasing efficiency
- Eliminates cryogenic storage needs, reducing environmental and logistical burdens
- Addresses inefficiencies in global breeding industry worth billions, contributing over \$6.5 billion annually to Australian GDP

BREAKTHROUGH IN EQUINE BREEDING: TACKLING THE “POOR CHILLER” CHALLENGE

SpermSafe has revolutionized breeding options for stallions whose sperm cannot tolerate traditional chilled storage methods. In a groundbreaking case study, a stallion with previously zero success using chilled semen achieved a remarkable 67% fertility rate when his semen was extended with SpermSafe and stored at 17°C. This innovation provides a solution for the estimated 30% of stallions classified as “poor chillers,” expanding breeding possibilities and genetic diversity in the equine industry.



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