



Bull 4MID® Kit (Ref. 4VDX-18K4) A Functional Assay of Sperm Quality and Male Fertility

Bull 4MID® Kit Main Advantages

- Based on a **functional sperm parameter** called proAKAP4
- Only a **few microliters required**
- Works with **fresh, chilled or frozen semen** in extenders
- **Easy to use**, robust and cost-saving testing kit

Bull 4MID® Kit Description

The **Bull 4MID® Kit (Ref. 4VDX-18K4)** is a robust ELISA kit that contains all reagents and buffers required for the quantification of proAKAP4 protein in all types of bull semen samples.



Product reference

4VDX-18K4

Specificity

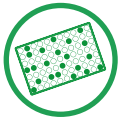
Bull proAKAP4

Analytical range

0 - 150 ng

Number of analysis

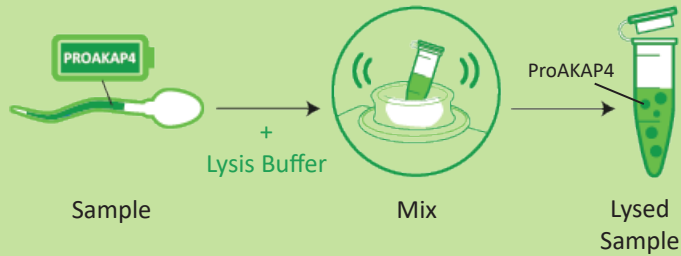
1 to 88 samples



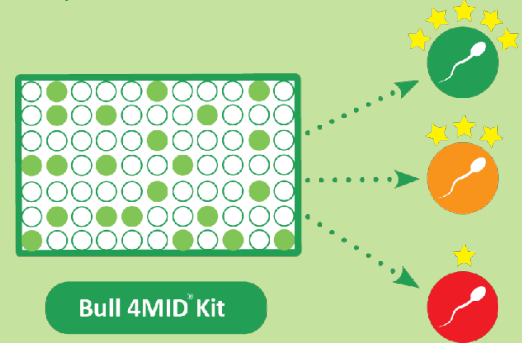
Bull 4MID® Kit (4VDX-18K4)

An Innovative Approach to Assess Sperm Quality and Fertility

Step one: Release of ProAKAP4

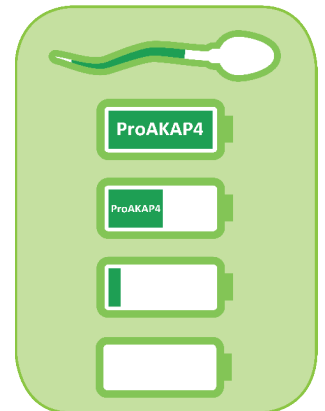


Step two: Quantification of ProAKAP4



Applications of the Bull 4MID® Kit:

- Semen quality assessments
- Qualification of each ejaculate / each straw
- Functional indicator of male fertility
- Monitoring tool of bull career
- Selection of sperm with long-lasting motility



Background: ProAKAP4 is a Functional Marker of Sperm Motility and Male Fertility

ProAKAP4 is the precursor of AKAP4 that is a structural protein playing a key role in sperm motility, capacitation and fertility. Spermatozoa without proAKAP4 are abnormal, immobile and infertile. The concentration of the proAKAP4 marker is a good indicator of sperm quality and fertility and of how the spermatozoa will stay motile and fertile over time.



Main References

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Ruelle et al. (2019) Rev. Bras. Reprod. Anim. Vol.43(2):472.
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