



Camel 4MID[®] Kit (Ref. 4VDX-19K11) A Functional Assay of Sperm Quality and Male Fertility

Camel 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

Camel 4MID[®] Kit Description

The **Camel 4MID[®] Kit (Ref. 4VDX-19K11)** is a robust ELISA kit that contains all reagents and buffers required for the quantification of proAKAP4 protein in all types of camel semen samples.



Product reference

4VDX-19K11

Specificity

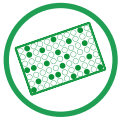
Camel proAKAP4

Analytical range

0 - 150 ng

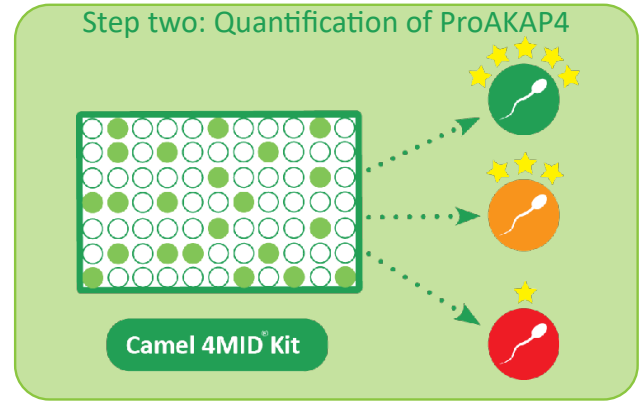
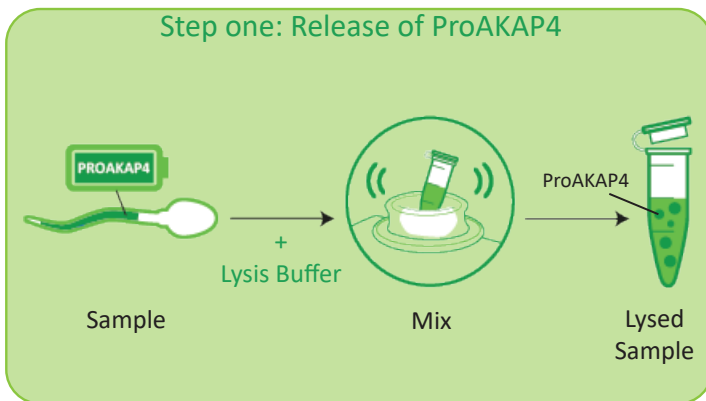
Number of analysis

1 to 88 samples



Camel 4MID[®] Kit (4VDX-19K11)

An Innovative Approach to Assess Sperm Quality



Applications of the Camel 4MID[®] Kit:

- Semen quality assessments
- Qualification of each ejaculate / each straw
- Functional indicator of male fertility
- Monitoring tool of camel 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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- Blommaert et al. (2019) Theriogenology. Vol. 131:52-60
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- Fang et al. (2019) Developmental Biology. Vol. 454(2):118-127