



VMRD Reader

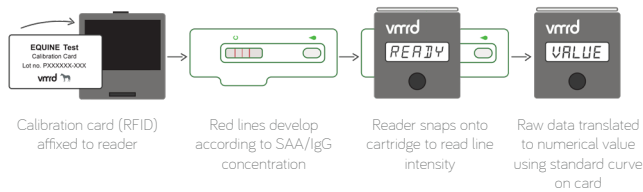
VMRD Reader

The VMRD Reader **offers fast, accurate diagnostics**. This enables rapid assessment of the horse's health status. Several lateral flow tests can be evaluated with the reader, for horses these are currently SAA and IgG.

The reader, with **rechargeable battery**, comes in a **convenient travel kit** that offers added protection for the reader. Up to 5 test pouches can be stored in the travel kit for ultimate portability. The reader is suitable for use in the field or in the clinic.

Quantitative results are generated **within 10 minutes**. Reliability is ensured thanks to a unique calibration system. The reader measures the intensity of the lines on the test strips, the evaluation is adjusted to batch and test type specifications. This reduces variation between tests and between readers.

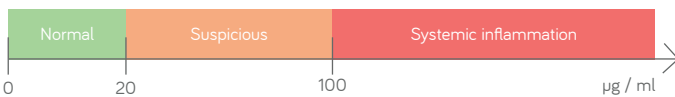
Translation of Raw Data to Value



SAA Test

The SAA Test is suitable for **(early) identification of acute inflammation**. In healthy animals, this marker is virtually absent; when acute inflammation occurs, the concentration of this marker rises rapidly. SAA has a short half-life and therefore rapidly decreases with successful treatment or when inflammation process has stopped. The test can be performed on fresh blood, EDTA blood or heparin blood. The blood in the blood tube should be **tested within 12 hours of collection**. The reader will always provide a numerical value, even at a concentration of **> 3000 µg/ml**. The results of the reader are calibrated to the VET-SAA standard.

The interpretation of the results is as follows:



0 to 20 µg / ml	no systemic inflammation (normal SAA)
200 to 1000 µg / ml	may indicate primarily local process; possible developing or resolving systemic inflammation
100+ µg / ml	indicates likely systemic inflammation and possible infection

The test strips are **available per 15 pieces**, they can be stored at room temperature and can be used up to 24 months after production.

Foal IgG Test

The Foal IgG Test is used to assess antibody uptake by foals. The first milk produced by the mare (colostrum) contains high levels of antibodies that the foal must absorb through nursing within the first 12-18 hours of life. If a foal has not ingested enough good quality colostrum during this time, IgG will be low and risk for serious infection will be high.

The Foal IgG Test can be done on fresh blood and EDTA blood. The blood in the blood tube should be **tested within 12 hours of collection**. The VMRD reader gives quantitative IgG values in **a range from 0 mg/Dl up to > 1000 mg/Dl**. The results of this test are calibrated to the VMRD radial immunodiffusion (RID) test. This RID test has been used as the reference test for other tests in numerous publications and is a **highly reliable method** for determining IgG.

The interpretation of the results is as follows:



The tests are **available in different packaging units**, they can be stored at room temperature and can be used up to 12 months after production.

Product information

Brand:	VMRD
Target species:	Equine
Use:	With the VMRD SAA Test and Foal IgG Test
Storage conditions:	Room temperature
Article code:	VMRD Plus Reader - LFD-CUBE-PLUS VMRD SAA Test - LFD-SAA VMRD IgG Test - LFD-IGG-FOAL, LFD-IGG-FOAL-1, LFD-IGG-FOAL-2

References

- Davis R, Giguère S. Evaluation of five commercially available assays and measurement of serum total protein concentration via refractometry for the diagnosis of failure of passive transfer of immunity in foals. *Journal of the american veterinary medical association*. 2005 Nov 1;227(10):1640-5.
- Karam B, Hines S, Skipper L, Pusterla N. Whole-blood validation of a new point-of-care equine serum amyloid A assay. *Journal of equine veterinary science*. 2020 Nov 1;94:103222.
- Metzger N, Hinchcliff KW, Hardy J, Schwarzwald CC, Wittum T. Usefulness of a commercial equine IgG test and serum protein concentration as indicators of failure of transfer of passive immunity in hospitalized foals. *Journal of veterinary internal medicine*. 2006 Mar;20(2):382-7.
- Witkowska-Pilaszewicz OD, Zmigrodzka M, Winnicka A, Miskiewicz A, Strzelec K, Cywinska A. Serum amyloid A in equine health and disease. *Equine veterinary journal*. 2019 May;51(3):293-8.