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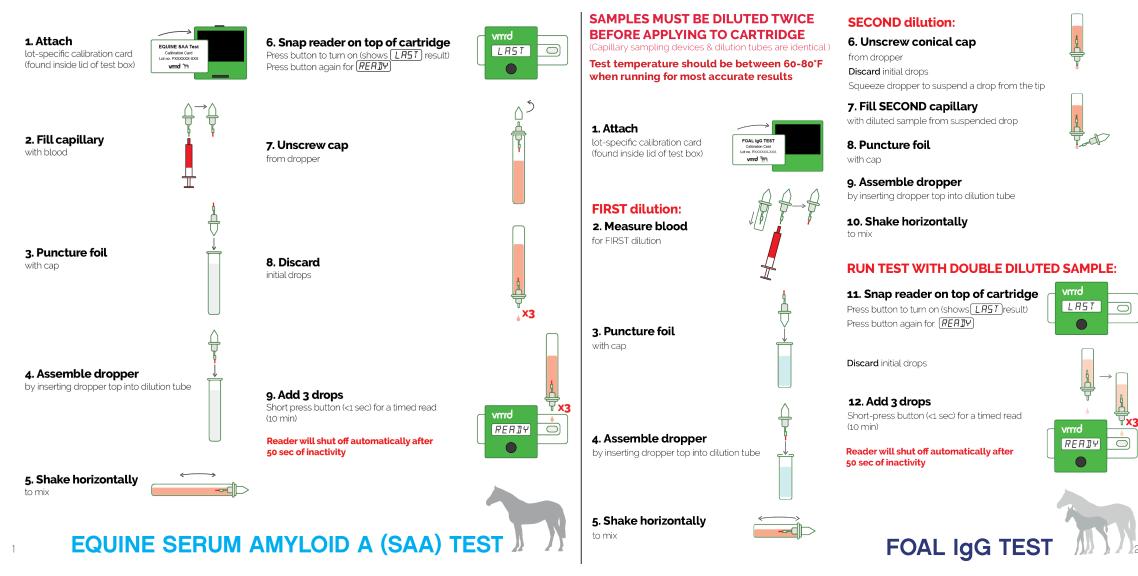


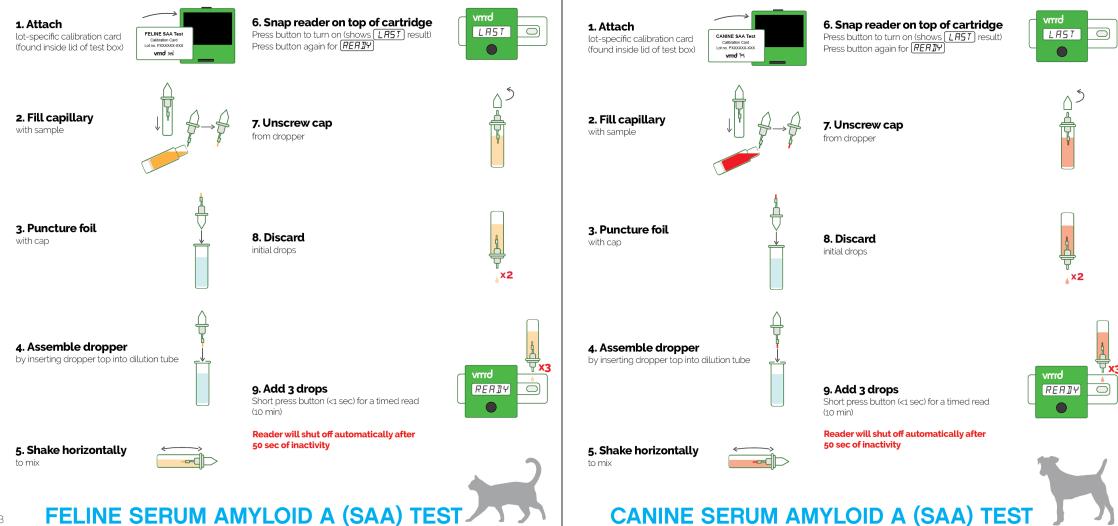
vmd+READER

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Contact us at +1.509.334.5815 • vets@vmrd.com VMRD, Inc. Pullman, WA 99163, USA **INSTRUCTIONS FOR USE**

Version 3





Reader technical information

Calibration card

- If you use your VMRD reader for more than one type of test, make sure you are using the correct card for the type of test you are currently running.
- Each batch of tests is assigned a lot number during manufacturing. The associated calibration card is embedded with the optimal settings for that specific lot number and type of test. This eliminates variability to maximize accuracy across lots, providing you with consistent results over time.
- The calibration card provides the programming needed to run the test which is transmitted to the reader via RFID technology. Therefore, the **calibration card must be attached to the reader for use.**
- The calibration card should be **changed every time a new box of tests is opened.** The new calibration card can be found in the lid of the green test box. Alternatively, you can compare the lot number of the new box with the lot number printed on the current card. If they match, the card does not need to be changed.

Reader operation & screen text

- When the button is **first** pressed, the last test result will be displayed, *LR5T* and value in µg/mL.
- Pressing the button a **second** time will bring you to the *RERIY* screen, at which time the reader is ready for the diluted sample to be applied if running a standard test.
- After applying sample, the button must be pressed a **third** time to start the test. The reader will display **SERN** as it scans for the calibration card.
- + When reading the result, the reader will display \fbox{Run}
- The reader will **turn off automatically after 50 seconds of inactivity**. There is no manual "off" function.

Batteries & maintenance

- Avoid exposure to water.
- Clean reading window by wiping with water or alcohol if smudged or dirty
- A USB charging cable is included with the **VMRD** reader. It is recommended to fully charge the reader before using.

- Charge the reader when the battery icon is displayed. The light will show red when the reader is charging.
- The light will flash blue when the reader is on.
- The reader can be used while charging; the light will flash red and purple.

If your reader has batteries:

- Takes **3 CR 2032 batteries**. Use batteries equivalent to Energizer or Duracell if available, or VARTA if outside of the U.S. Purchased battery quality may vary.
- Typical battery life is 100+ tests.
- The battery compartment is located on the side of the reader and can be opened using a flat object such as a coin.
- Battery performance may be affected by low temperatures or continuous testing. **Battery life will** gradually restore once the reader is warmed or left unused for a period of time.
- Change the batteries if the battery icon diplays thorugh multiple tests.
- Batteries can drain over time when left in the reader during periods of disuse

Stored data

- Result of previous test will be stored and viewable on the reader screen until a new test is started. These results will then be transferred to long-term storage.
- Up to **100 results will be stored** on the reader and can be downloaded to a computer via USB cable. Data can then be transferred into Excel in tab delimited (tsv) format. If you are interested in this feature, please contact VMRD to obtain the USB cable and DataReader software.

Error messages

- [I] X [I] Sensor exposed to direct light at start-up: Let the reader turn off (automatic after 50 sec. of inactivity) then turn it on again, ensuring underside of reader is protected from bright light.
- [1] Battery too low to complete test: Change batteries, or, if due to low ambient temperature, allow reader to warm up which should restore battery life.
- The reader flashes <u>5ERN</u> and <u>TEST</u> then shows <u>ERR</u> after pressing the button to start the test: This indicates the calibration card is not properly attached.
- For any other errors, please contact VMRD Technical Support at support@vmrd.com.