



zoetis



VETSCAN[®] HM5 Hematology Analyzer

Advanced Hematology
Five-Part Differential

Feature #1: User Friendly

Benefit #1:
Large color touchscreen and on-screen instructions minimize the learning curve and make the HM5 easy to operate.

Feature #2: Small Sample Volume

Benefit #2:
The HM5 only draws 50µL per run, making it easy to analyze low-volume samples and replicate runs for small or young animals.

Feature #3: Histograms to Complement Differentials

Benefit #3:
Blood cell populations are graphically represented so you can easily verify differential cell counts, identify common and uncommon disease distribution patterns, or check sample integrity at a glance.

**Sound
Byte**

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www.zoetisus.com/products/diagnostics/vetscan/vetscan-hm5-hematology-analyzer.aspx

Keys to Successful Testing



- Use the largest vein and needle appropriate for blood collection.



- Ensure a proper ratio of anticoagulant to blood, by filling the tube according to the manufacturer's guidelines.



- **Do not** hold off the vein for more than a few seconds before venipuncture.

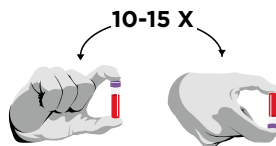


- Run the sample as soon as possible after drawing.

- Perform a fast, atraumatic venipuncture, if possible. Do not redirect the needle after insertion.

- Always check the tube for clots prior to running the sample.

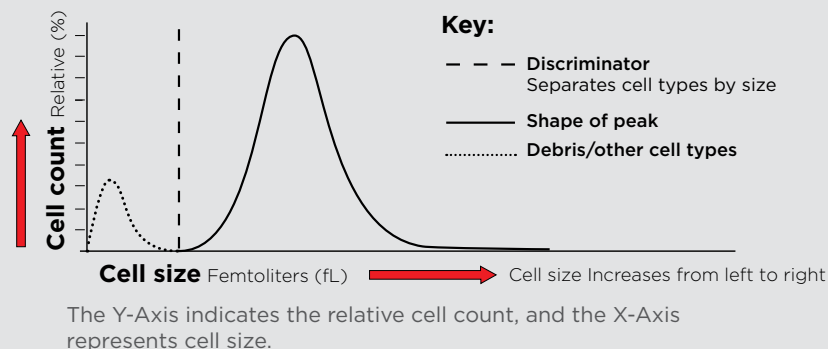
- Samples must be inverted 10-15 times after collection and re-inverted just prior to use.^{1,2}



Elements of a Histogram

Histograms are graphical representations of the blood cell populations. In a histogram, cells are separated according to their cell type based on their size, with each peak representing a different cell type. Histograms can help verify the differential cell counts, serve as a quality control check, identify uncommon disease processes, and indicate sample integrity.

- The area under the curve is equal to the relative cell count for the specific sample run.
- Histograms will vary from sample to sample, and the peak height of a histogram cannot be compared between different sample runs.



Sound Byte

CHECK-OFF & ECHO NOTES

Here is a scenario you can discuss with staff or the pet owner
Start with:

We have a small kitten that will be having pre-anesthetic lab work prior to spay or OVHE. We are only going to get a small sample size but need to be prepared for clumping, common in cats. It is important to run a complete blood count to verify there is no infection or inflammation, platelets involved in blood clotting are present, and the red blood cell count is normal before surgery.

STATE THE SOLUTION

Even if platelet clumping is present, the HM5 is easy to use and only requires 50 μ L of sample*. If the initial platelet count is low, we can use the HM5 histograms to help interpret if the platelet count is low due to clumping or a disease process.

*Sample size needed is based on blood tube size selected and respective manufacturer tube guidelines.

MAKE YOUR RECOMMENDATION

The HM5 will give us everything we need for pre-anesthetic lab testing to minimize anesthetic complications through small sample size, accurate results and histograms.

1 VETSCAN HM5 Operator's Manual. 2018. 790-7013 Rev. F. Data on file, ABX-00248.

2 Weiser, G. Laboratory Technology for Veterinary Medicine [Chapter 1]. Veterinary Hematology and Clinical Chemistry. 2012; p. 3.