

VetScan[®] **HM5**
Hematology Analyzer



VetScan[®]
HM5



BETTER. ACTUALLY.



Advanced Hematology Five-Part Differential



The VetScan HM5 is a fully automated five-part cell counter offering a comprehensive 22-parameter complete blood count (CBC) with cellular histograms in just minutes. Its superior performance, elegant design, ease of use, true database management capability, and minimal maintenance make it the optimal hematology system for veterinary clinics, research laboratories, pharmaceutical and biotech companies.

- Reference Lab Accuracy
- 2 Drops Sample Size
- Direct Eosinophil Count
- 15 Species Profiles
- Quick Time to Results

VetScan
HM5

Less Time, Less Sample, More Accuracy, More Reproducibility

Features

- Five-part differential on cat, dog, horse, cow, alpaca and llama; three-part on nine other species
- 22 parameters, including direct eosinophil counts and eosinophil percentage
- Small, space-saving, elegant design with large LCD display
- Advanced, integrated self-cleaning system
- Stores 2,000 records in database with simplicity, flexibility and usability
- 50-microliter sample size
- Highly accurate, reproducible results comparable to reference lab analyzers
- Integrates with common practice management systems
- Eco-friendly, cyanide-free reagents
- Contains pre-dilute mode for challenging samples
- CD drive and USB ports
- Three to four minutes to results

Benefits

- Full CBC analysis on 15 common species in your practice
- Provides convenient, in-house CBCs for even allergic and parasitic cases
- Fits on nearly every clinic counter
- Minimal maintenance facilitated by software reminders and step-by-step instructions
- Easy database backup and access
- Allows analysis of low-volume samples and replicate runs for small or young animals
- High confidence in results
- Solutions available to fit with your lab workflow
- Simplified reagent handling
- Get results for concentrated or low-volume samples
- Easy loading of software upgrades or archiving of data
- Fast turnaround for each sample—run nearly 20 samples per hour in five-part mode

Simple Operation, Easy As 1-2-3



1 Enter information.



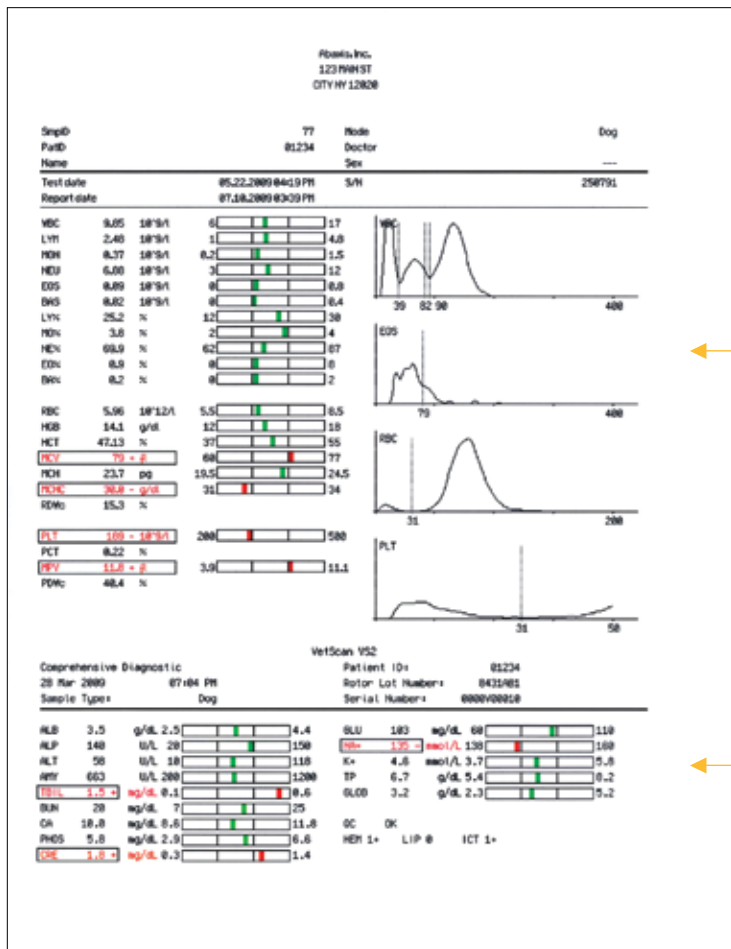
2 Insert sample and press start.



3 Read results.

Comprehensive Combined Hematology and Chemistry Report

The test results and four histograms are displayed in minutes on an 8.5 x 11 printout.

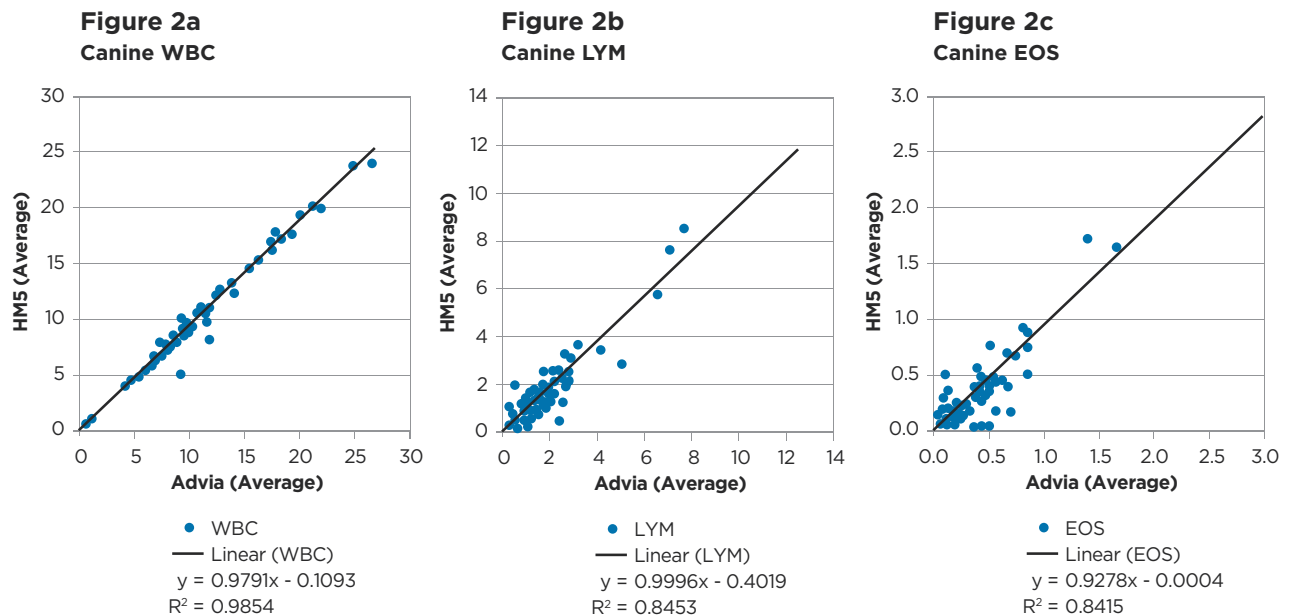


Easy assessment of sample quality and results through histograms.

Simple integration with the VetScan chemistry analyzer

Proven CBC Accuracy

Figures 2a, 2b and 2c highlight the accuracy of the HM5 on WBC, LYM and EOS differentials in canine samples. In addition, the HM5 performed admirably on all the species tested (cat, dog, horse). Each HM5 data point is an average of triplicate runs, and the Advia instrument (pathology lab) is an average of duplicate runs. In the plots shown, the HM5 results matched the pathology lab instruments extremely well.



Actual Direct EOS Measurements

Some hematology analyzers only provide estimates of eosinophil counts, which prove to be relatively inaccurate. The HM5 uses a combination of impedance and cytochemical technologies to provide a direct independent measurement for the presence of eosinophils. These eosinophil counts correlated very well with the pathology lab (Figure 2c).

Reproducibility You Can Rely On

The VetScan HM5 provides reproducibility in its measurements in intra-day trials, intra-instrument trials and multi-site studies done with multiple operators. Whether it's between different users or different instruments, the HM5 analyzer provides reproducibility you can count on.

Table 1 shows the total variation shown across nine instruments at multiple facilities with multiple operators. All the CVs are extremely low—some of the lowest variability in the veterinary hematology marketplace. All of these samples were run with normal level controls.

Table 1

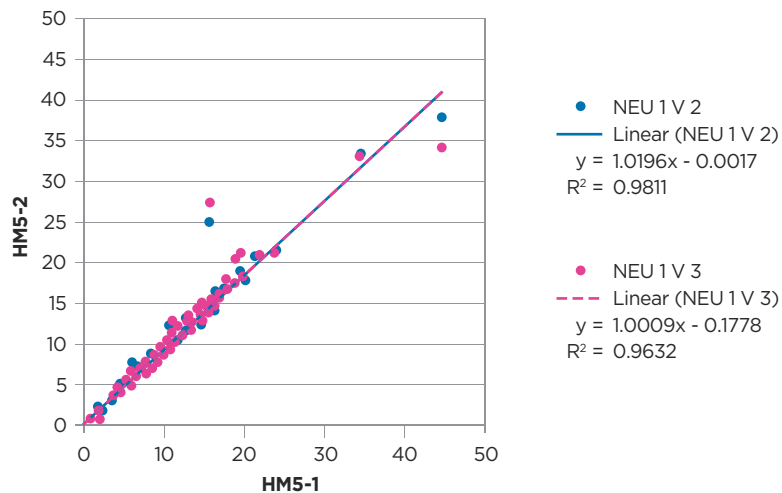
Low variability (% CV) in HM5 CBC with multi-day, multi-instrument precision.

Parameter	WBC	NEU	LYM	EOS	HGB	RBC
% CV	1.70	2.39	3.73	2.14	1.48	1.73

In addition, the reproducibility from measurement to measurement is impressive. When triplicate runs of live canine blood samples are plotted against each other, the three replicates are almost entirely identical in all three runs. In Figure 1, the NEU result for replicate 1 (x axis) is plotted against replicate 2 or 3 (y axis). This representative plot shows that the two lines almost entirely overlap, indicating that both replicate 2 and 3 are identical to replicate 1. Replicate 2 also overlaps with replicate 3 since all the pink dots nearly overlap the blue dots.

Figure 1

High precision of canine samples on the HM5.



VetScan HM5 Less Time, Less Sample, More Accuracy, More Reproducibility

For more information on the VetScan HM5, please contact your Abaxis Representative at 800.822.2947, email us at vetscan@abaxis.com or click vet.abaxis.com/hm5.

Abaxis is your total on-site laboratory partner, offering the comprehensive and innovative VetScan line of diagnostic instruments and individual tests. The VetScan name has become synonymous with convenience, ease of use and cost-effectiveness, delivering on our promise of speed, accuracy and reliability. Abaxis delivers it all.



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