



# Z52 VET Hematology Analyzer

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A compact 5-diff hematology analyzer for animal healthcare



Hematology

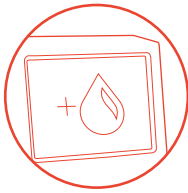


## Z52 VET Hematology Analyzer

Z52 VET is designed to offer 5-diff results for animals, which can provide 25 parameters, 5 scatter-grams and 3 histograms via advanced semiconductor laser scattering technology and flow cytometry. This Z52 VET enables veterinary labs and research facilities to deliver faster results and improved standardized testing.

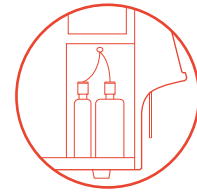


# Highlight Feature



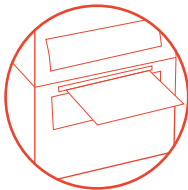
## User-friendly Experience

- 25 parameter result tests only require 1 minute.
- Easy to use in the simplified software interface.
- Only consumes 18 $\mu$ L whole blood for WBC 5-part differentiation.
- Only 1 or 2 clicks to access main work-flow interface.



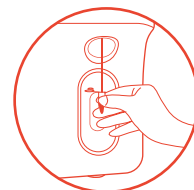
## Compact Design

- Built-in 8.4 inch touch screen, no need for extra PC.
- Two lysers located in the machine, reduce biological risk.
- Compact and light-weight design most suitable for small veterinary lab.



## Accurate Result

- Laser scattering combined flow cytometry technology delivers an advanced five-part white blood cell differential.
- Cutting-edge technology 3D DIFF scatter gram bring more accurate result for high eosinophil sample.
- Specific veterinary algorithms suitable for several species, like cat, dog, bovine, sheep, etc.



## Simple Maintenance

- One key to aspirate probe cleanser for deep cleaning.
- One click for troubleshooting and automatic unlogging by 110 V high voltage burning.
- Less maintenance cost via high-quality hardware, optimized hydraulic system.

## Distinctive reagent package design fit for small labs

Reagent Name	Specification	Storage Temperature	Open-vial Stability	Shelf Life
V-LB Lyse	60 mL/bottle	4~30 °C	90 Days	24 Months
	100 mL/bottle	4~30 °C	90 Days	24 Months
V-LD Lyse	280 mL/bottle	4~30 °C	90 Days	24 Months
	480 mL/bottle	4~30 °C	90 Days	24 Months
V-5DN Diluent	10 L/bucket	4~30 °C	90 Days	24 Months
VET-P Probe Cleanser	50 mLx2/box	4~30 °C	60 Days	12 Months
V-CAL Calibrator	3 mL/vial	2~8 °C	7 days	35 days
V-5D Control (L/N/H Level)	3 mL/vial	2~8 °C	105 days	14 days

- Cyanide free measurement for HGB.
- Only 2 lysers for 5-diff WBC differentiation and WBC counting.
- Stable and environment-friendly liquid, ready to use reagent.
- Automatically loaded lot number and expiry information through RFID card.



## Excellent Clinical Performance

Parameter	Background	Precision		Carry-over	Linearity range
		Detection Range	CV		
WBC( $\times 10^9/L$ )	$\leq 0.20$	(3.00-15.0)	$\leq 3.0\%$	$\leq 0.5\%$	(0-500.00)
RBC( $\times 10^{12}/L$ )	$\leq 0.02$	(3.50-6.00)	$\leq 2.0\%$	$\leq 0.5\%$	(0-17.00)
HGB(g/dL)	$\leq 0.1$	(11-18)	$\leq 2.0\%$	$\leq 0.5\%$	(0-25)
HCT(%)/MCV(fL)	HCT: $\leq 0.5$	MCV:(70-120)	$\leq 1.0\%$	/	HCT:(0-67)
PLT( $\times 10^9/L$ )	$\leq 5$	(100-500)	$\leq 6.0\%$	$\leq 1.0\%$	(0-5000)

## Technical Specification

Principle	Flow cytometry +tri-angle laser scatter technology for WBC 5-diff differential analysis and WBC counting
	Impedance method for RBC and PLT counting
	Cyanide free reagent for HGB measurement
Throughput	60 samples per hour
Parameters	25 parameters: WBC, Lym%, Mono%, Neu%, Bas%, Eos%, Lym#, Mono#, Neu#, Bas#, Eos#, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PCT, PDW, P-LCR, P-LCC
Graphic	3 2D DIFF scatter gram
	1 2D BASO scatter gram
	1 3D DIFF scatter gram
	3 histograms for WBC, RBC and PLT
Animal Species	Feline, canine, cattle, sheep, rabbit, hamster, guinea pig, mink, pig, alpaca, horse, and camel.
Sample Volume	18 $\mu$ L whole blood
Reagent	V-LB Lyse, V-LD Lyse, V-5DN Diluent and VET-P Probe Cleanser
Screen Display	8.4 inch-colorful HD touch screen
Interface	4 USB port for external printer, external barcode scanner, mouse, keyboard, etc.
	1 network port, HL7 protocol, support LIS.
Storage Capacity	$\geq 50,000$ results including numeric and graphical information
Power Supply	(100-240) V~, 50 / 60 Hz, 200 VA
Operation environment	Temperature: (10-30) °C
	Humidity: (20-85)%
	Atmospheric Pressure: (70-106) kPa
Weight	29 Kg
Dimension (mm)	230(W)* 435(D)*455 (H)



**Zytobia Ltd.**

Address: Building 38, No. 8 Taikang Road, C Zone,  
Jianqiao Industrial Park, Dadukou District, Chongqing, China 400082

Tel: +86-23 6819 0901 Fax: +86-23 6869 9779

E-mail: [zytopia@zy-ivd.com](mailto:zytopia@zy-ivd.com) Website: [www.zytopia.com](http://www.zytopia.com)

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