

Main Specifications

Principle

Methodology	Automated staining + Microscopy + AI pretrained algorithm
Stain Method	Double-staining + Temperature control system

Device

Processor	8-core AI processor
User Interface	10.1 inch touch screen, 1024 x 768 resolution
Detection Field	Up to 750 images per test
Microscopy/Resolution	18X / Up to 0.6μm resolution
Dimension / Weight	350(H) x 400(W) x 450(D) mm / 12.8Kg
Input Power Supply	AC 100-240V, 50/60Hz
Connectivity	USB3.0, 2 Ports, WI-FI 802.11b/g/n, LAN, ASTM and HL7 (developing)

Sample & Test

Morphological Analysis	Blood, urine, feces, pleural and ascitic fluid
WBC 8-Part Differential	Basophil (BAS), Eosinophil (EOS), Lymphocyte (LYM), Monocyte (MON), Neutrophil (NEU), Neutrophilic segmented granulocyte (NSG), Neutrophilic granulocyte band form (NST), Neutrophilic polymorphonuclear leukocytes (NSH)
Test Parameters-RBC	Reticulocyte (RET), Nucleated Red Blood Cells (NRBC), Erythrocyte Ghost (ETG), Hemoglobin Distribution Width (HDW), Spherocyte (SPH), Agglutinated erythrocytes (AGG) and etc.
Test Parameters-PLT	Platelet aggregation (APLT) and etc.
Detection Time	8 minutes/sample (Hematology)
Storage of Cartridge	Room Temperature (5-30°C/41-86°F)
Shelf Life of Cartridge	18 months

Operation Condition

Temperature / Humidity	5- 30°C / 0- 95%
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Founded in 2011, skyla specializes in IVD POCT, supported by a professional engineering team with expertise in reagents, optics, electronics, mechanics, software, and automation. We are committed to providing high-quality products and services for a healthier future.

+886.3.611.8511
support@skyla.com
1F, No.8, Dusing Rd., Hsinchu Science Park,
East Dist., Hsinchu City, Taiwan



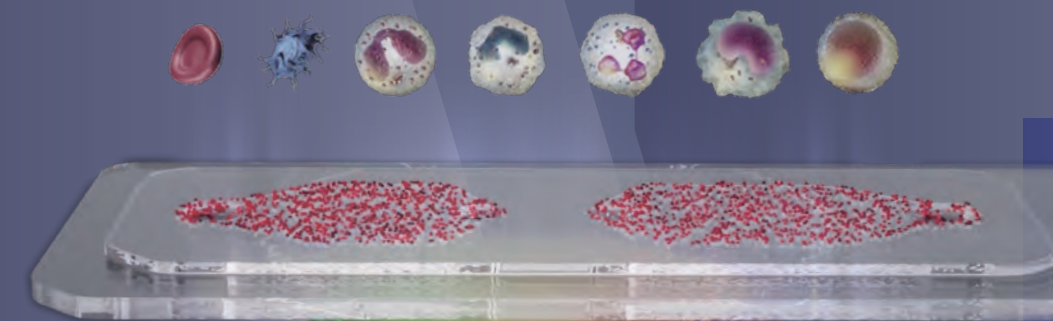
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skyla[®] VM100

Veterinary AI Multifunctional Morphological Analyzer

CBC | 8-Diff | RETIC



Blood Urine Feces PL/AS Fluid*

Automatic Sampling and Staining

skyla[®] VM100

Microscopy + AI

Free maintenance

Fast & Accuracy enhanced

Streamline clinical workflows

Features

4-in-1 Versatility

100+ test items in one.
Blood, urine, feces, PL/AS fluids.

Golden Standard + AI

Microscopy with evolving AI.
Precise cellular recognition.

Richer Cellular Insight

0.6µm ultra-high resolution.
Wide field of view.
Multispectral illumination.

Maintenance-Free

No liquids, pumps, or valves.
Zero clogging.
Reliable operation.

Cartridge Based Reagents

No bottles & pipetting.
Minimize human error.
Long shelf life.

Monolayer Cell Tech

Suspended cells self-align into a
uniform monolayer — reducing
overlap and improving visibility.

Precision Recognition Results

Temp-controlled dual staining.
Boosts dye penetration and consistency.
Richer coloration, consistent staining.

Test parameter

47 items

Hematology Analysis



8-Diff: in WBCs.



RET: Reticulocytes.
W/O extra steps or cost.



Band-shaped Neutrophils:
Acute phase infection.

29 items

Urinalysis



Casts: Renal health, early
kidney disease.



Crystals: Stone risk, dietary
and metabolic analysis.



Cells: Infection, hematuria,
lower urinary tract disease.

29 items

Fecal Analysis



Parasite eggs: Active
parasitic infection.



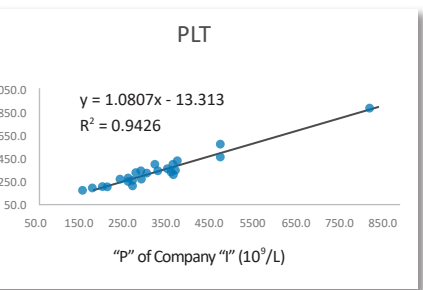
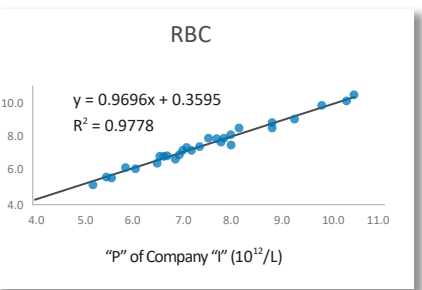
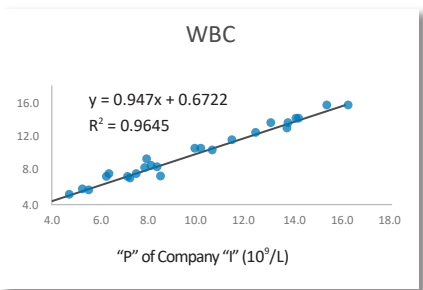
Protozoa: Diarrhea causes;
chronic/zoonotic infections.



Pathogens: With WBC/
Ep. C., clarify infection
origin & severity.

High Reliability

Excellent correlation with standard laboratory analyzer.



Comprehensive Report

- ✓ Test result data
- ✓ Distribution images
- ✓ Histograms
- ✓ Morphological view
- ✓ Clinical interpretation

Test Report of Hematological Morphological Analysis

Pet Name: Bonju
Gender: Female
Case No.: 20250520003

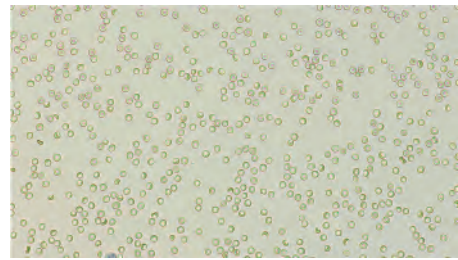
Owner Tel.:
Species: Canine
Test Time: 2025-07-24 18:38

Owner Name:
Age: 9

Test Item	Test Result	Reference Range	Low	Normal	High
01. WBC	13.69 $10^9/L$	5.05-16.76			
NEU#	9.81 $10^9/L$	2.95-11.64			
NSH#	0.24 $10^9/L$	0.00-0.80			
NSG#	9.45 $10^9/L$	2.50-11.30			
NSH#	0.12 $10^9/L$	0.00-0.40			
LYM#	5.8 $10^9/L$	1.05-5.10			
MON#	0.91 $10^9/L$	0.16-1.12			
EOS#	0.0 $10^9/L$	0.06-1.23			
BAS#	0.15 $10^9/L$	0.00-0.10			
NEU%	71.67 %	52.00-78.00			
NSH/WBC%	1.75 %	0.00-10.00			
NSG/WBC%	2.44 %	0.00-20.00			
NSH/NEU%	69.04 %	50.00-75.00			
NSG/NEU%	0.88 %	0.00-5.00			
LYM%	1.23 %	0.00-7.00			
MON%	37.95 %	16.00-41.50			
EOS%	6.67 %	1.00-13.00			
BAS%	0.9 %	0.50-1.85			
02. RBC	6.31 $10^{12}/L$	5.65-8.87			
HGB	138.73 g/L	131.00-205.00			
HCT	39.45 %	37.30-63.70			
MCV	56.23 fL	61.60-73.50			
MCH	20.1 pg	21.20-25.90			
MCHC	357.44 g/L	320.00-375.00			
RDW-CV	11.86 %	11.20-17.10			
RDW-SD	25.74 fL	25.60-41.60			
HDW-CV	14.33 %	7.00-20.00			
HDW-SD	2.80 g/L	2.00-8.00			
RET#	51.68 $10^9/L$	3.00-110.00			
RET%	0.82 %	0.00-1.50			
03. PLT	199.16 $10^9/L$	148.00-484.00			
MPV	10.18 fL	8.70-13.20			
PDW	15.02 fL	9.10-19.40			
PCT	0.2 %	0.14-0.46			
APLT#	0.0 $10^9/L$	0.00-0.15			
P-LCC	11.95 $10^9/L$	0.00-66.00			
P-LCR	6.0 %	0.00-25.00			

01/04

Red Blood Cell & Platelet Distribution Image (RBC&PLT)



NST		Number : 23 sheets/143 images/754 images Concentration: 0.24 $10^9/L$
NSG		Number : 819 sheets/143 images/754 images Concentration: 9.45 $10^9/L$
NSH		Number : 79 sheets/143 images/754 images Concentration: 0.12 $10^9/L$
MON		Number : 66 sheets/143 images/754 images Concentration: 0.91 $10^9/L$