



AI-100VET



Veterinary Multi-Functional Analyzer for Blood/Urine/Feces

All for veterinary, to think more, to do better



Over 900 Units Installed Globally



- Globally over 900 units
- China
- South Korea, Thailand, Malaysia, Singapore, Philippines, Indonesia, Kazakhstan
- Spain, France, Italy, UK, Poland, Romania, Czech Republic, Slovakia, Russia, Turkey
- Costa Rica, Colombia, Mexico

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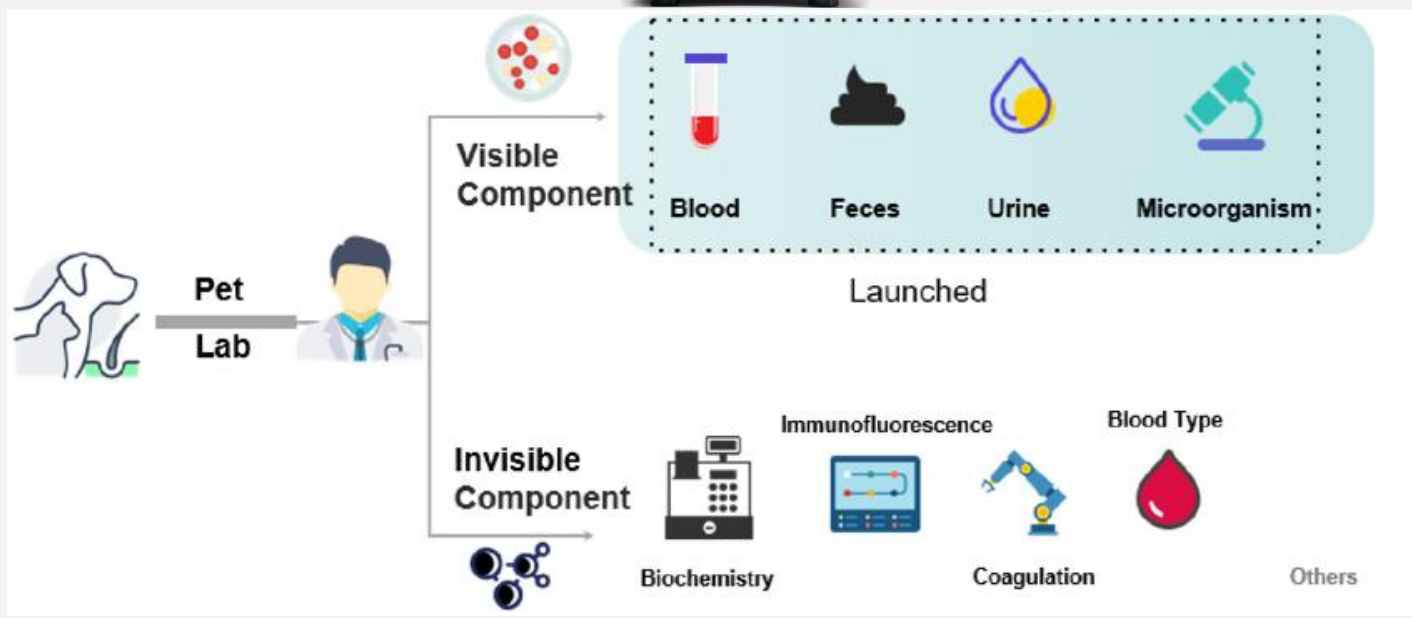


Product Introduction





What can I do?





Why choose AI-100?



01 Multi-function, multi-species, multi-parameters

04 Convenient & Efficient

02 AI technology

05 Low cost, super stable

03 High accuracy

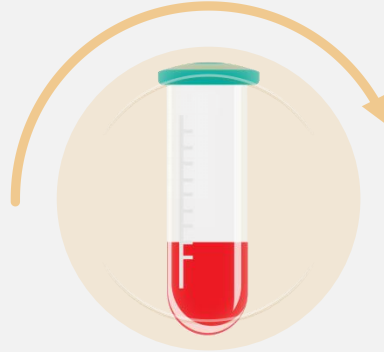
06 Continually upgrading



1. Multi-function, multi-species, multi-parameters

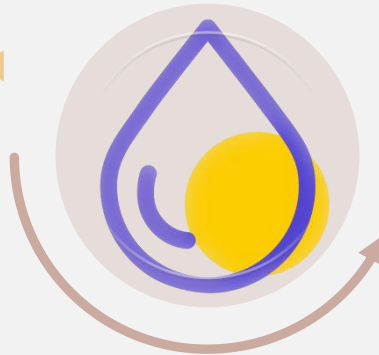
Mammals
Peptides

Blood



Requires only 10uL
Provides morphological reports
Captures 200,000 – 500,000 cells
[500+ photos]
Contains **46** parameters and still
expanding

Urine



Requires only 500uL
Centrifuge Free
Captures 1200 photos
Contains **21** parameters
and still expanding

Feces



Requires only 150uL
Captures 1200 photos
Contains **30** parameters
and still expanding



2. Smart AI Technology



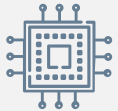
Built –in AI

Detection upon startup, automatic report generation



Fast and Free Upgrade

Connect to the network for a quick upgrade, only takes 5 minutes



High accuracy

Training on millions of data points daily to ensure accurate results.

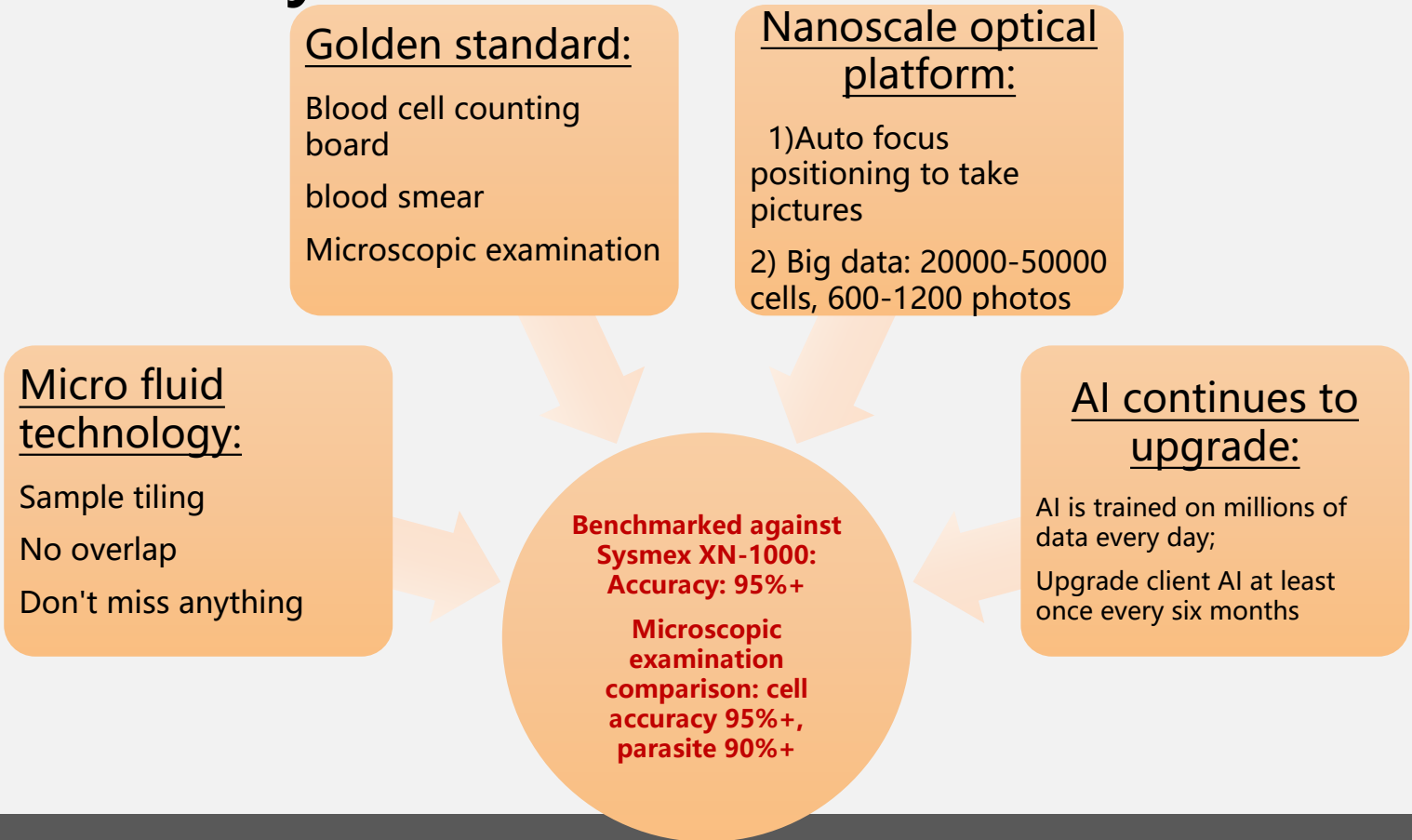


Hardware

Subsequent upgrades without the need for hardware upgrades



3. High accuracy



4. Convenient & Efficient



Simple Operation



No pre-processing of samples required
Sample loading can be done in 20 seconds



In 7.5-9 minutes

Parameters report, morphological report, and AI diagnostics.
Combine diagnosis suggestions are available



High Accuracy

Over 95% for celles
Over 90% for parasites, protozoa, casts etc.,



Large Data Volume

Single capture fields 1000+ images,
with 200-500 thousand cells.



5. Low cost, super stable

3 types of tests, saving purchasing costs

Keeping reagents at room temperature saves storage costs, and the cost of a single test is fixed without waste.

No professional knowledge required for testing personnel, saving labor costs

Avoid human errors and reduce disputes

No need for regular cleaning and maintenance, saving time, effort and money

No risk of pipeline blockage, reliable quality, sustainable work

The hardware is of high quality and basically trouble-free; the hardware does not need to be modified.

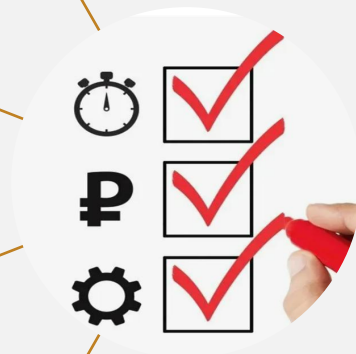
Regularly software upgrade.

3 in 1

AI

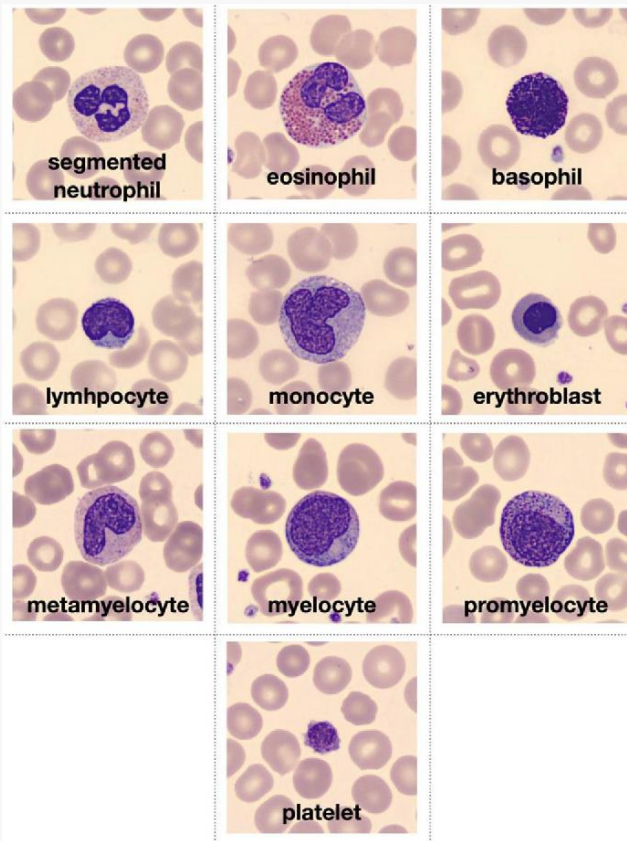
No liquid path

Worry-free hardware, Free to upgrade





Blood Components



Cells under microscopic , for showing the difference only





Main Features



10uL of Blood

- Test can be conducted with just a mere **10μL** blood sample.
- The entire test, including PBS, can be completed within **7.5 minutes**.
- Surpassing species limitations, it has the capability to detect various animals, including **Mammals: dog, cat, rabbit, chin chilla, rattus, mus, cricetinae, ferret and others**, **Reptile: turtles**



46 parameters

Surpassing 7 part DIFF test

- **7 Pass test: Band neutrophil, Segmented neutrophil, Hypersegmented neutrophil, Eosinophil, basophil, Lymphocyte, monocyte**
- **NRBC, RET, AGG, SPH**
- **ETG**
- **LPLT, APLT**



Maintenance Free

- **Cost-effective**
Results with high precision and accuracy





Advantages of Blood Cell Testing

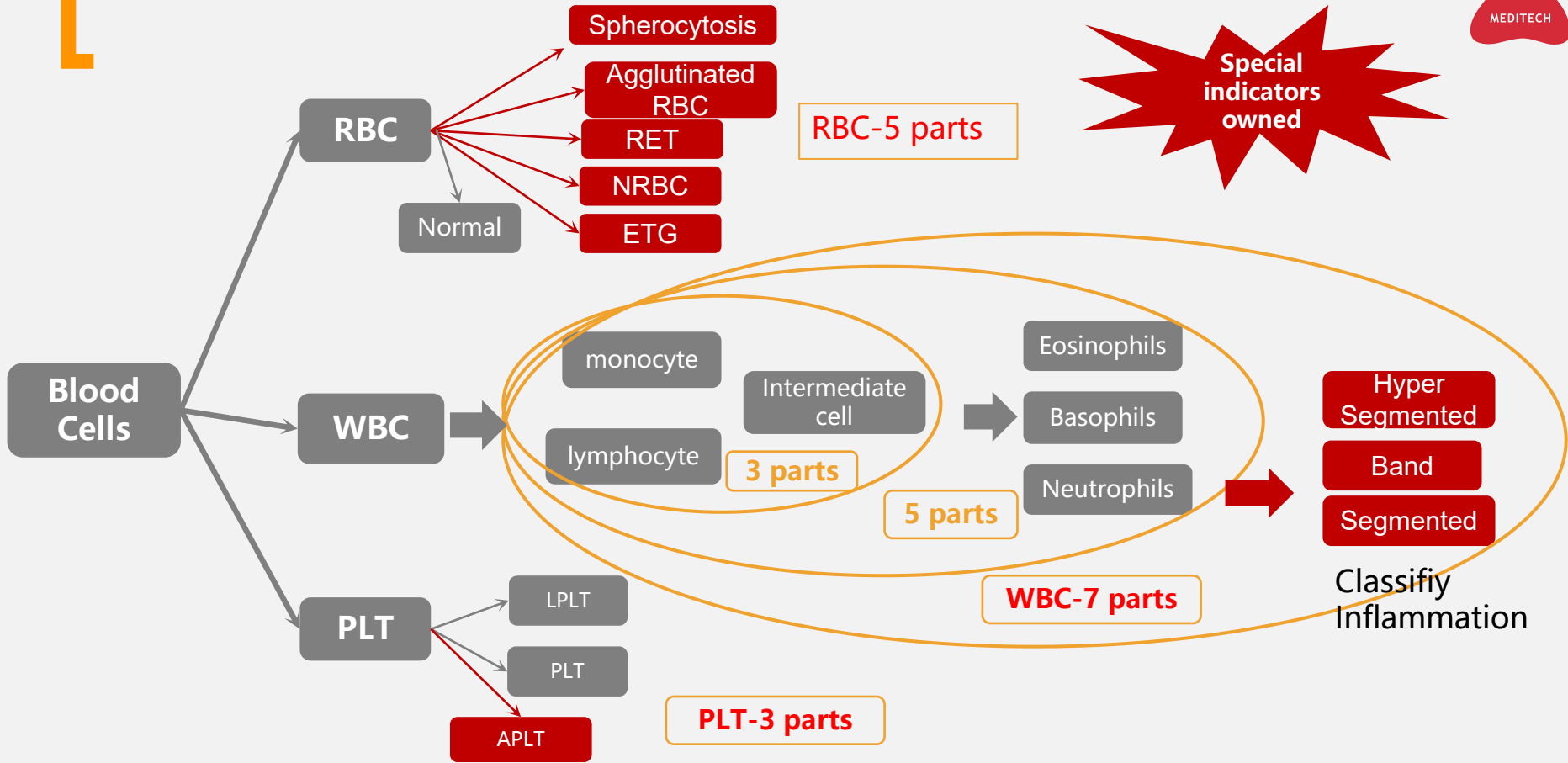


WBC-7 D, band & hyper segmented neutrophil

3 part	5 part	AI 100VET—7 part
Granulocyte	Neutrophil	Band neutrophil
		Segmented neutrophil
		Hypersegmented neutrophil
	Eosinophil	Eosinophil
	basophil	basophil
Lymphocyte	Lymphocyte	Lymphocyte
monocyte	monocyte	monocyte



Introduction and Classification of Blood Cells



Blood Report 46 Parameters

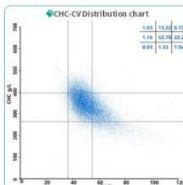
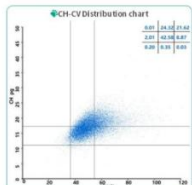
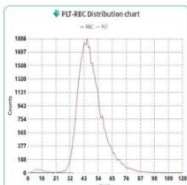


Blood report

No.: 231205002 LIS: Doctor: Admin Sample: Blood[1x] Time: 2023/12/05/09:43:51
 Pet name: anne Species: cat Gender: M Pet age: 0Yrs7Mos Owner:

Parameters

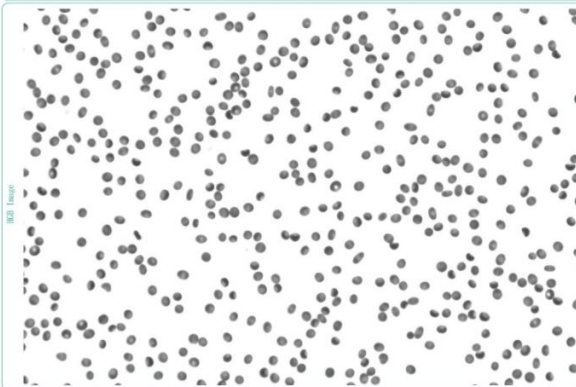
Detection items	Result	Unit	Reference	LOI	Manual	HIGH
1.WBC	5.13	10⁹/L	3.50-17.90			
1-1.NEU#	2.07	10 ⁹ /L	2.30-12.35			
1-2.NST#	0.00	10 ⁹ /L	0.00-0.80			
1-3.NSG#	2.07	10 ⁹ /L	2.30-12.50			
1-4.LYM#	1.97	10 ⁹ /L	0.73-6.60			
1-5.MON#	0.28	10 ⁹ /L	0.00-0.90			
1-6.EOS#	0.81	10 ⁹ /L	0.00-1.20			
1-7.BAS#	0.00	10 ⁹ /L	0.00-0.12			
1-8.NEU%	40.41	%	38.00-80.00			
1-9.NST/WBC%	0.00	%	0.00-10.00			
1-10.NSG%	40.41	%	35.00-75.00			
1-11.LYM%	38.36	%	20.00-50.00			
1-12.MON%	5.48	%	1.00-7.20			
1-13.EOS%	15.75	%	1.00-11.20			
1-14.BAS%	0.00	%	0.00-0.20			
1-15.NST/NEU%	0.00	%	0.00-15.00			
2.RBC	9.54	10¹²/L	5.00-12.00			
2-1.HGB	163.34	g/L	98.00-178.00			
2-2.HCT	49.07	%	26.00-47.00			
2-3.MCV	51.42	fL	38.70-52.50			
2-4.MCH	37.12	pg	11.80-36.50			
2-5.MCHC	322.87	g/L	280.00-380.00			
2-6.RDW-SD	28.00	fL	16.00-31.90			
2-7.RDW-CV	19.54	%	15.50-24.20			
2-8.HDW-SD	9.00	g/L	5.80-9.80			
2-9.HDW-CV	15.21	%	13.20-23.00			
2-10.ETG#	0.02	10 ¹² /L	0.00-0.15			
2-11.ETG%	0.17	%	0.00-1.50			
2-12.NRBC#	0.00	10 ⁹ /L	0.00-0.00			
2-13.NRBC/WBC%	0.00	%	0.00-0.00			
2-14.NRBC/RBC%	0.00	%	0.00-0.00			
2-15.RET#	3.48	10 ⁹ /L	0.00-9.60			
2-16.RET%	0.04	%	0.00-0.15			
2-17.MCV#	41.06	fL				
2-18.RDW-CV	20.04	%				
3.PLT	113.58	10⁹/L	140.00-547.00			
3-1.PCT	0.13	%	0.20-0.80			
3-2.MPV	11.17	fL	8.20-21.30			
3-3.PLTF	3.67	10 ⁹ /L	0.00-103.00			
3-4.PLCR	3.23	%	0.00-30.00			
3-5.PPLF	12.49	10 ⁹ /L	0.00-0.15			
3-6.PDW-SD	16.00	fL	7.10-31.10			
3-7.PDW-CV	50.40	%	43.70-73.40			



This report is only responsible for this sample and is for reference only. No.: 231205002 Pet name: anne Time: 2023/12/05/09:43:51 1/4Page

Blood Morphology Report

No.: 231205002 LIS: Doctor: Admin Sample: Blood[1x] Time: 2023/12/05/09:43:51
 Pet name: anne Species: cat Gender: M Pet age: 0Yrs7Mos Owner:



This report is only responsible for this sample and is for reference only. No.: 231205002 Pet name: anne Time: 2023/12/05/09:43:51 2/4Page





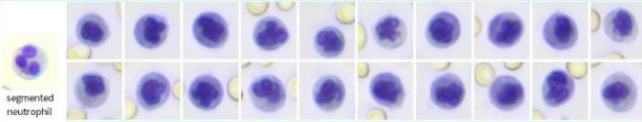
Blood Report

band neutrophils



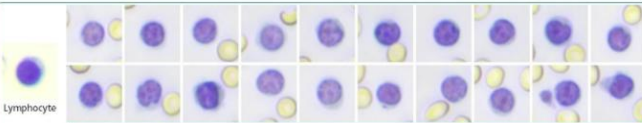
QTY: 0/594 photos | Ca.: $0 \times 10^9/L$ | PCT: 0 NST#/WBC

segmented neutrophil



QTY: 59/594 photos | Ca.: $2.07 \times 10^9/L$ | PCT: 40.41 NSG#/WBC

Lymphocyte




QTY: 56/594 photos | Ca.: $1.97 \times 10^9/L$ | PCT: 38.36 LYM#/WBC

Monocyte



QTY: 8/594 photos | Ca.: $0.28 \times 10^9/L$ | PCT: 5.48 MON#/WBC

Eosinophils



QTY: 23/594 photos | Ca.: $0.81 \times 10^9/L$ | PCT: 15.75 EOS#/WBC

Basophil



QTY: 0/594 photos | Ca.: $0 \times 10^9/L$ | PCT: 0 BAS#/WBC

This report is only responsible for this sample and is for reference only

No.: 231205002

Pet name: anne

Time: 2023/12/05/09:43:51

3/4Page

normocyte



QTY: 2296/208 photos | Ca.: $4.36 \times 10^{12}/L$ | PCT: 79.43 Normocyte#RBC

normochromic



QTY: 15500/54 photos | Ca.: $3.8 \times 10^{12}/L$ | PCT: 76.04 Normochromic#RBC

macrocyte



QTY: 478/108 photos | Ca.: $0.91 \times 10^{12}/L$ | PCT: 16.33 Macrocyte#RBC

hyperchromic erythrocyte



QTY: 298/54 photos | Ca.: $1.11 \times 10^{12}/L$ | PCT: 13.03 Hyperchromic#RBC

microcyte



QTY: 1519/108 photos | Ca.: $0.29 \times 10^{12}/L$ | PCT: 5.25 Microcyte#RBC

hypochromic erythrocyte



QTY: 1703/54 photos | Ca.: $0.68 \times 10^{12}/L$ | PCT: 6.93 Hypochromic#RBC

Erythrocyte Ghost



QTY: 81/108 photos | Ca.: $0.02 \times 10^{12}/L$ | PCT: 0.17 ETC#RBC

NRBC



QTY: 0/5 photos | Ca.: $0 \times 10^9/L$ | PCT: 0 NRBC#RBC

Reticulocyte



QTY: 18/708 photos | Ca.: $3.46 \times 10^9/L$ | PCT: 0.04 RETA#RBC

large platelet



QTY: 19/108 photos | Ca.: $3.97 \times 10^9/L$ | PCT: 3.23 LPL#PLT

agglutinating platelets



QTY: 384/804 photos | Ca.: $22.95 \times 10^9/L$ | PCT: 11.87 APPL#(APL#PLT)

Diagnostic recommendation

Single diagnosis:

I [WBC]

↓ [NEU<2.30] It is common in serious disease consumption, poisoning, physical and chemical damage and so on.

II [RBC]

↓ [HCT<47.00] It is common in dehydration, use of catecholamines, compensatory or pathological increase of erythropoietin, adrenocortical hyperfunction, hyperthyroidism, limb hypertrophy and so on.

III [PLT<140.00] It is common in sample agglutination, hemorrhage, platelet destruction, organ detention, insufficient bone marrow formation, drug induction and so on.

↓ [PCT<0.2] It suggests thrombocytopenia.

↓ [APLT<0.15] It is suggested that coagulation and azotemia are common in immune-mediated thrombocytopenia, infectious diseases, malignant tumors, heart disease, drug-induced disorders and so on.

AI- Implemented Diagnosis

This report is only responsible for this sample and is for reference only

No.: 231205002

Pet name: anne

Time: 2023/12/05/09:43:51

4/4Page





Comparison of competitions- Blood



Blood	Parameters	3 parts	5 parts	BC- 60R	IDEXX Pro Cyte One	AI-100VET
WBC	Neutrophil	✓	✓	✓	✓	✓
	Band	✗	✗	Smear + microscope	✗	✓
	Segment	✗	✗	Smear + microscope	✗	✓
	Hyper Segmented	✗	✗	✗	✗	✓
	LYM	✓	✓	✓	✓	✓
	MON	✓	✓	✓	✓	✓
	EOS	✗	✓	✓	✓	✓
	BAS	✗	✓	✓	✓	✓





BLOOD	Parameters	3 parts	5 parts	BC- 60R	IDEXX Pro Cyte One	AI-100VET
RBC	RBC	✓	✓	✓	✓	✓
	RET	✗	✗	✓	✓	✓
	NRBC	✗	✗	✗	✗	✓
	ETG	✗	✗	✗	✗	✓
	AGG	✗	✗	✗	✗	✓
PLT	PLT	✓	✓	✓	✓	✓
	LPLT	✗	✗	✓	✓	✓
	APLT	✗	✗	✗	✗	✓
Morphological Report	3 pages of Colour Printed Report	✗	✗	✗	✗	✓

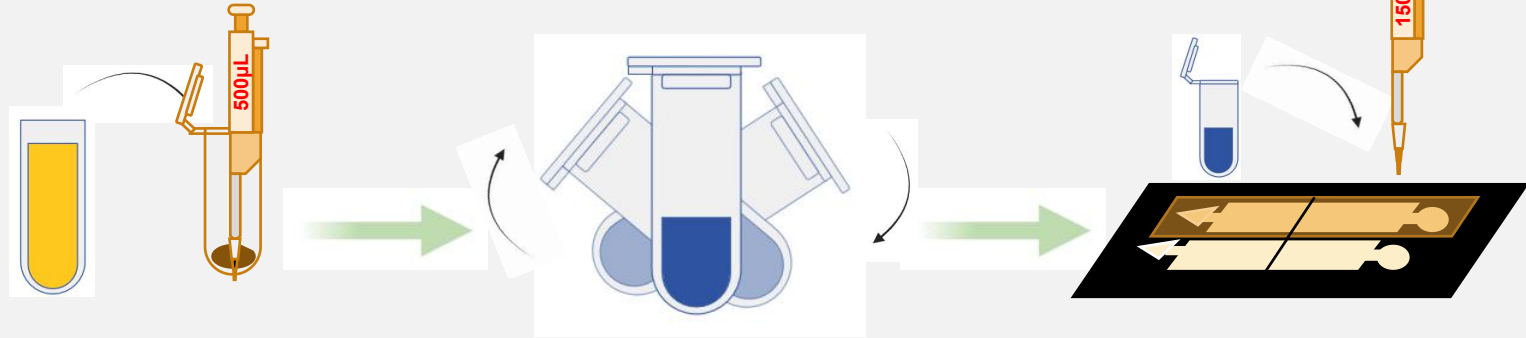




Urine Components



Procedure for Handling Canine and Feline Urine



Draw **500µl** of urine from the bottom of the test tube into the dye solution.


Mix the urine and dye solution thoroughly until there are **no obvious dye sediments** visible in the test tube.


Draw **150µl** of the sediment sample from the bottom of the test tube and add it to the chip for machine testing.




Comprehensive Urine Parameters


01  — **Casts**
Chronic Kidney Disease
Inflammation
Infections


02  — **Crystals**
Iatrogenic
Gout
Renal Failure
Urinary Tract Infection
Hypoparathyroidism

03  — **Cells**



04  — **Bacteria**
Rods and Cocci

05  — **Yeast**

06  — **Sperm**



Enhanced urinalysis - provides a more comprehensive analysis



Single Step Operation

- The testing process necessitates only 500 μ L of raw urine.
- **No pre-processing or manual staining is required.**



21 Parameters

- 4 Cast types
- 6 Crystals
- 6 Cells (including sperm)
- 3 Bacteria
- Others: Lipid droplets, mucous



AI Editing

- Adapt AI confidence levels according to specific needs or criteria.
- Empower doctors to make the final decision regarding closely identified morphology.

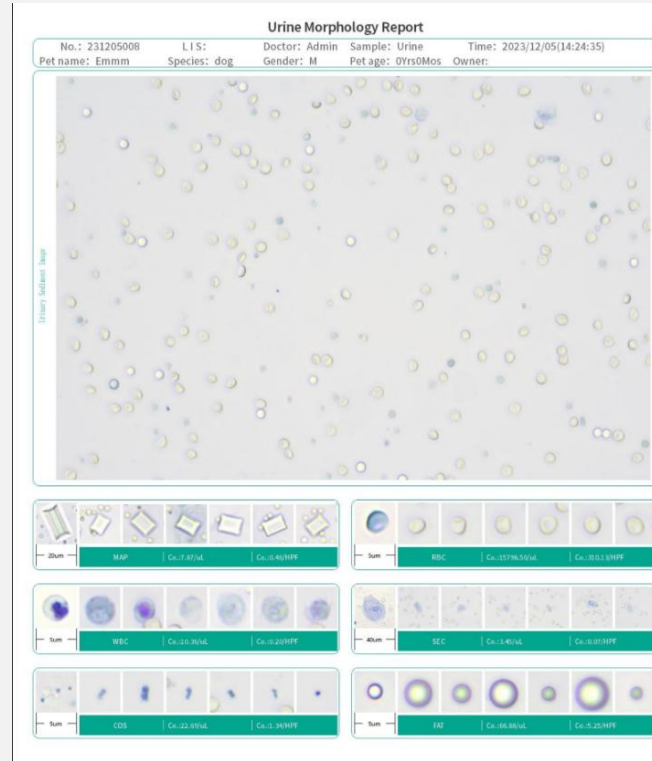
Urine Sediments 21 Parameters



Urine report					
No.: 231205008	LIS:	Doctor: Admin	Sample: Urine	Time: 2023/12/05(14:24:35)	
Pet name: Emmm	Species: dog	Gender: M	Pet age: 0Yrs0Mos	Owner:	
Color: Yellow	Pellucidity: Clear and	Co.: 1x			
Parameters					
Detection items	Result/Unit	Parameters	Reference	Negative	Positive
1.Cast					
1-1.Hyaline cast	0.00/μL	0.00/LPF	0-0.8/μL	—	
1-2.Cellular cast	0.00/μL	0.00/LPF	0-0/μL	—	
1-3.Granular cast	0.00/μL	0.00/LPF	0-0/μL	—	
1-4.Waxy cast	0.00/μL	0.00/LPF	0-0/μL	—	
2.Crystal					
2-1.Struvite*	7.87/μL	0.46/HPF	0-5/μL	—	+
2-2.Calcium oxalate monohydrate*	0.00/μL	0.00/HPF	0-0/μL	—	
2-3.Calcium oxalate dihydrate*	0.00/μL	0.00/HPF	0-3/μL	—	
2-4.Calcium carbonate*	0.00/μL	0.00/HPF	0-0/μL	—	
2-5.Uric acid	0.00/μL	0.00/HPF	0-0/μL	—	
2-6.Cystine	0.00/μL	0.00/HPF	0-0/μL	—	
3.Cells					
3-1.RBC	15798.50/μL	310.13/HPF	0-25/μL	—	++++
3-2.WBC	10.36/μL	0.20/HPF	0-25/μL	—	
3-3.Renal tubular epithelial cell	0.00/μL	0.00/HPF	0-0/μL	—	
3-4.Squamous epithelial cell	3.45/μL	0.07/HPF	0-7/μL	—	
3-5.Transitional epithelial cell	0.00/μL	0.00/HPF	0-3/μL	—	
3-6.Sperm	0.00/μL	0.00/HPF	0-0/μL	—	
4.Germ					
4-1.Cocci	22.69/μL	1.34/HPF	0-0/μL	—	+
4-2.Bacillus	0.00/μL	0.00/HPF	0-0/μL	—	
4-3.Yeast	0.00/μL	0.00/HPF	0-0/μL	—	
5.Others					
5-1.Lipid drop	66.88/μL	5.25/HPF	0-160/μL	—	
5-2.MUCUS	0.00/μL	0.00/LPF	0-3/μL	—	

Diagnostic recommendation

- [Yellow] It is common in normal urine.
- [MAP+5] It is common in urinary tract bacterial infection, low urine volume, alkaline urine or elevated magnesium level in diet.
- [COS+0] There are many interference factors (such as amorphous crystallization, etc.) in bacterial detection of suspected cocci overgrowth or urinary tract cocci infection. This result is for reference only. It is recommended to confirm bacterial culture.
- [RBC>25] Common in urinary tract bleeding (cystitis, urinary calculi, urinary crystallization).



- Casts
- Crystals
- Cells
- Germs
- Mucus
- Sperms
- ...

Comparison of competitors- Urines



Items	AI-100VET	Microscope	IDEXX SediVue DX	URIT
Principle	1200+ Views	Centrifugal	Impedance with CCD	
Time	9 mins	30 minutes	3 minutes	70 seconds
Quantifiability	Quantitative	Qualitative	Qualitative	Qualitative
Parameters	21	Depends on the operator	8	11
Centrifuge	No	Yes	No	No
Smear	No	Yes	No	No
Acceptance	High	Depends on the operator	No	No
Cast	4	Depends on the knowledge and experience of the operator	2	2
Crystals	6		1	1
Epithelial Cells	3		1	1
RBC, WBC	✓		✓	✓
Bacteria	✓		✓	✓
Mucus	✓		✓	✓
Lipid Droplets	✓		✗	✗
Sperm	✓		✗	✗

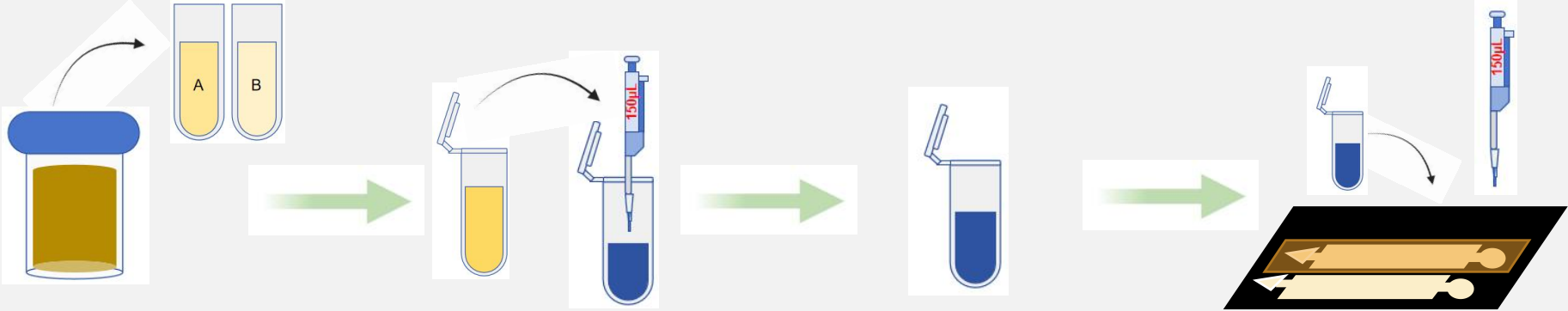




Feces Components



Procedure for Handling Canine and Feline Feces



Use a **turbidity card** to determine if the sample concentration is appropriate.

Draw **150µl** of the appropriately concentrated sample solution and add it to the dye solution, then invert to mix well.

Leave the test tube uncapped and let it stand for **1 minute**.

Draw **150µl** of the sample from the bottom of the test tube and add it to the chip for machine testing.





Exclusive Fecal Parameters



01

Parasites

Eggs
Protozoa

03

Cells

02

Pathogenic Bacteria

04

Digestive Functions





Easier Fecal Testing



Single Step Operation

- A comprehensive set of 30 parameters can be obtained using only 150 μ L of fecal lavage fluid.
- Requires no pre-processing or manual staining.



30 Parameters

- Parasites: Hookworm, roundworm, tapeworm, Spirrometra, Dipylidium, Alaria
- Protozoa: Giardia, Trichomonas, Isospora
- Intestinal Microbiota: Ratio of cocci to bacilli,
- Pathogenic Bacteria in the Intestine: 5 types.
- Cells: WBC, RBC, epithelial cells.
- Digestive Components: Lipid droplets, plant material, muscle fibers



AI Editing

- Adapt AI confidence levels according to specific needs or criteria..
- Empower doctors to make the final decision regarding closely identified morphology.



Feces Report with 30 Parameters



Faeces report				
No.: 231205006	LIS:	Doctor: Admin	Sample: Feces(150ul)	Time: 2023/12/05(12:07:49)
Pet name: mix	Species: cat	Gender: M	Pet age: 0Yrs0Mos	Owner:
Texture: Undefined	Smell: Undefined	Parameters		Color: Undefined
Detection items	Result/Unit	Result/Unit	Reference	Negative Positive
1.Parasite egg				
1-1.Ascaris ascaris	0.00	0.00/LPF	0-0	○
1-2.Hookworm	0.00	0.00/LPF	0-0	○
1-3.Tape worm	0.00	0.00/LPF	0-0	○
1-4.Dipylidium caninum	0.00	0.00/LPF	0-0	○
1-5.Sporozoa	0.00	0.00/LPF	0-0	○
1-6.Alaria alata	0.00	0.00/LPF	0-0	○
2.Intestinal protozoa.				
2-1.Trichomonas	2.00	0.40/LPF	0-0	○ ●
2-2.Giardia lamblia	15.00	3.01/LPF	0-0	○ ●
2-3.Isosporium coccidia	0.00	0.00/LPF	0-0	○
2-4.Isosporium coccidia 0	0.00	0.00/LPF	0-0	○
2-5.Isosporium coccidia 1	0.00	0.00/LPF	0-0	○
2-6.Isosporium coccidia 2	0.00	0.00/LPF	0-0	○
3.Germ				
3-1.Cocci	317.29/ug	28.81/HPF	145-729/ug	○ ●
3-2.Rods	7374.82/ug	650.97/HPF	516-13904/ug	○ ●
3-3.Br evilbacterium	5589.35/ug	493.36/HPF	321-12462/ug	○ ●
3-4.Crude bacilli	1490.49/ug	131.56/HPF	15-1650/ug	○ ●
3-5.Anaerofilum	294.99/ug	26.04/HPF	0-185/ug	○ ●
3-6.Cocci/Rods	0.043	0.043	0.017-0.156	○ ●
3-7.Campylobacter	2.83/ug	0.25/HPF	0-30/ug	○ ●
3-8.Bacillus	0.00/ug	0.00/HPF	0-40/ug	○
3-9.Serpentine spiracheta	0.00/ug	0.00/HPF	0-0/ug	○
3-10.Helicobacter	0.00/ug	0.00/HPF	0-0/ug	○
3-11.Yeast	3.13/ug	0.28/HPF	0-150/ug	○
4.Cells				
4-1.RBC	739.11/ug	65.24/HPF	0-5/ug	○ ●
4-2.WBC	4.88/ug	0.43/HPF	0-0/ug	○ ●
4-3.Epithelial cells	0.00/ug	0.00/HPF	0-12/ug	○
5.Digestive function				
5-1.Starch granule	0.00/ug	0.00/HPF	0-9/ug	○
5-2.Lipid drop	0.00/ug	0.00/HPF	0-1/ug	○
5-3.Plant fiber	0.00/ug	0.00/HPF	0-0/ug	○
5-4.Muscle fiber	0.00/ug	0.00/HPF	0-0/ug	○
Diagnostic recommendation				
<ol style="list-style-type: none"> [FAT#-1] Suspected Giardia lamblia infection. [RBC#-1] Common in the colon, rectum, anus and other bleeding. [WBC#-0] Common in all kinds of enteritis (bacterial, allergic, viral, parasitic, etc.), tumor and so on. [LFAT#-1] Common in all kinds of enteritis, dyspepsia, pancreatic insufficiency, acute / chronic pancreatitis, pancreatic cancer and so on. 				
<p>Combined diagnosis:</p> <ol style="list-style-type: none"> [TR#-6, TR#-0] Suspected Trichomonas infection. The quantity is small, it is recommended to confirm by manual microscopic examination. <p>Due to various factors such as different stages of parasite infection, different parasite sites and different methods, operations and sites of specimen collection, eggs and bodies may be missed. It is recommended to reexamine fecal samples at different sites and at different times to improve the detection rate.</p> <p>—— (Methods for laboratory examination of parasitic diseases)</p>				

Faeces Morphology Report				
No.: 231205006	LIS:	Doctor: Admin	Sample: Feces(150ul)	Time: 2023/12/05(12:07:49)
Pet name: mix	Species: cat	Gender: M	Pet age: 0Yrs0Mos	Owner:

Parasite

Germs

Cells

Plant fibers, muscle fibers, lipid droplets, starch granules

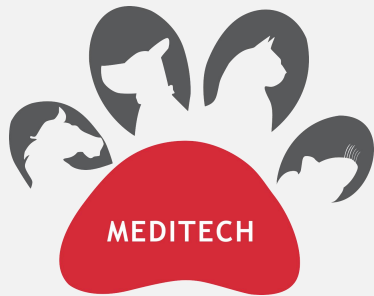


Comparison of competitors- Feces



Items	AI-100VET	Zoetis- imagist-AI	Dymind- D wise
Principles	1200+ field view	Enrichment and smear	A minute video + 10 field
Time taken	9 minutes	40 minutes	10 minutes
Report	In house	Online	In house
Quantifiability	Yes	No	No
Parameters	30	6	9
Centrifuge	No	Yes	Yes
Smear	No	Yes	Yes
Acceptance	High	Low	Low
Eggs	✓	✓	✓
Trichomonas	✓	✗	✓
Giardia	✓	✗	✗
Germs	✓	✗	✗
Pathogenic Bacteria	✓	✗	✗
Digestive Functions	✓	✗	✗
Fat droplets	✓	✗	✓
Cells	✓	✗	✗





Thank you!

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