TooToo Meditech Co., Ltd.

AI-80Vet

Morphological Analyzer

For animals use only.

Optimize your laboratory
One Configurable Veterinary AI Analyzer

Broad Scope of Application:

Dog

Cat

Rabbit

Other mammals

Address: 3A, Phase II, Smart Home, Baolong Street,
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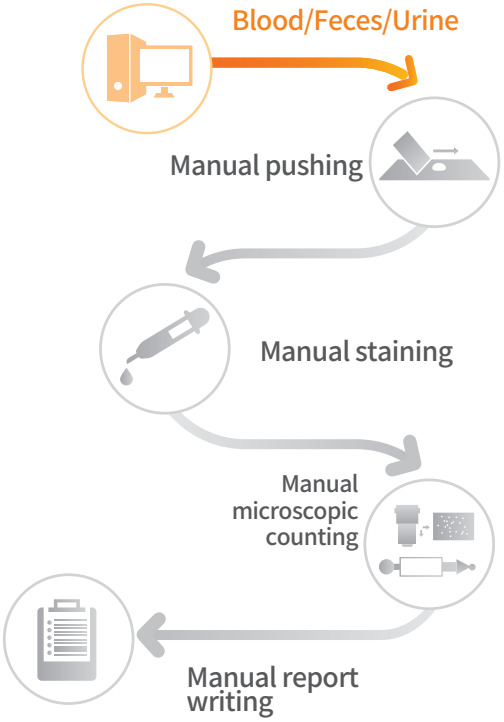
AI-80Vet

Traditional Method



One Device. One or Two Core Functions

Blood	Urine	Feces
46+ parameters	21+ parameters	32+ parameters

Each unit is custom-built with your preferred combination — no more paying for features you don' t use.

***For detailed information, please contact your local distributor.**

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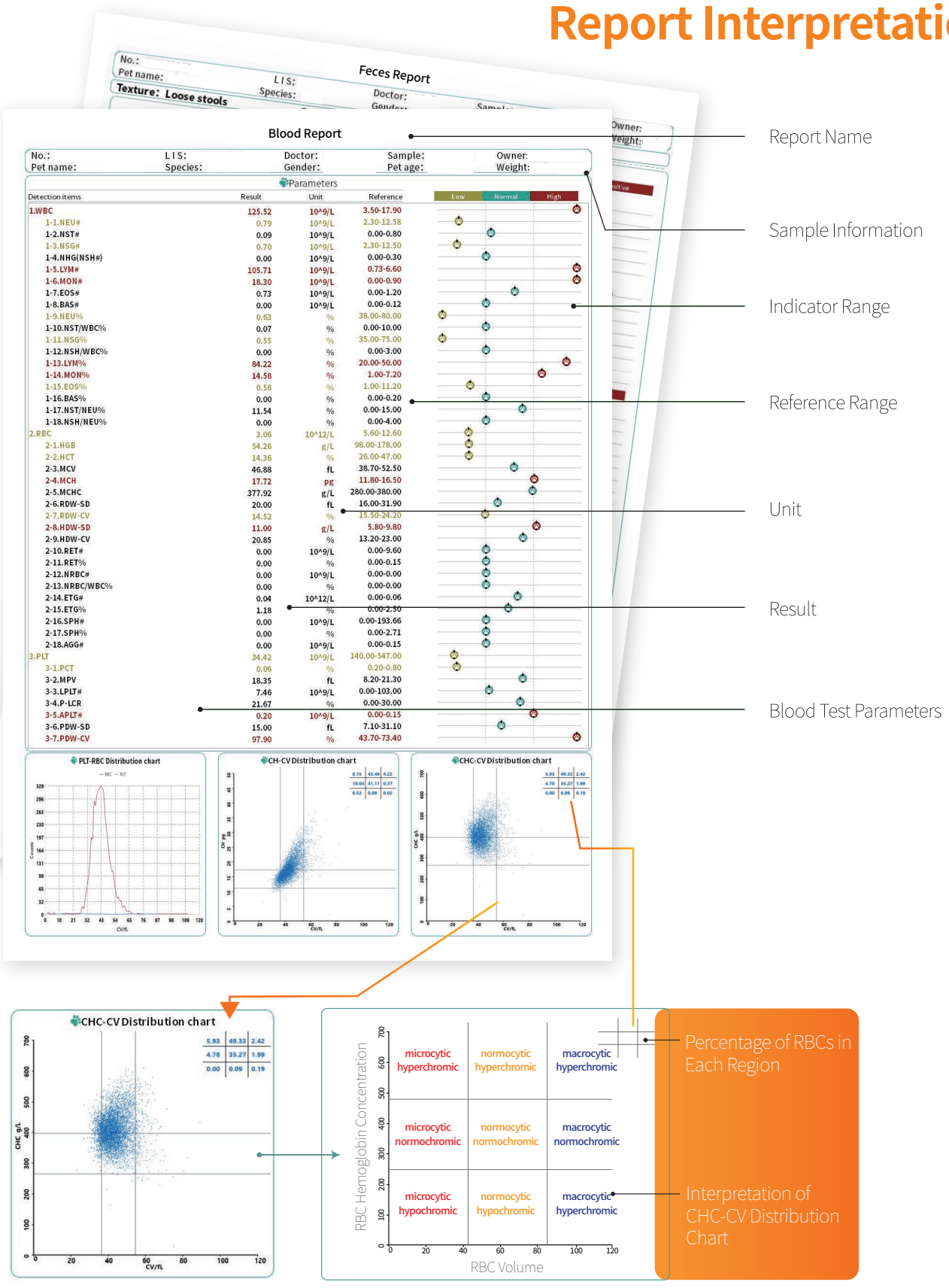
Report Interpretation



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10 Min

AI-powered blood smear test

NST & NSG & NHG: Distinguishing inflammation and stress/excitement

RET & NRBC: Identifying regeneration of anemia

ETG: Assessing intravascular hemolysis

SPH: Red blood cell membrane damage

Agglutinated PLT: Revealing more accurate state of platelet

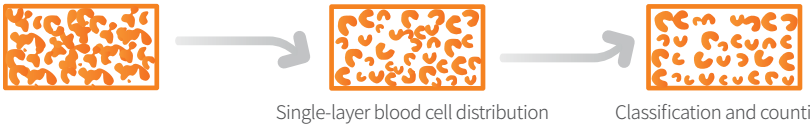
Large PLT: Indicating the regeneration of platelet

AGG: Immune system issues

More Count

- 10μl blood, allows instant capture of 200,000 to 500,000 cells, with full reports
- Nano-precision optic swiftly captures 500+ fields within 10 min

More Accurate Interpretation



- **Microfluidic technology:** allows the formation of a single layer of blood cells, enhancing the precision of cell classification and counting.

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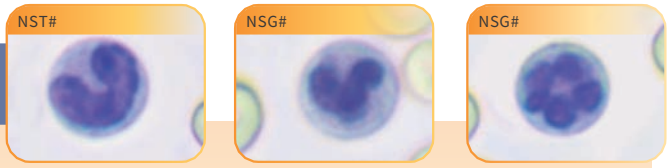
Gold Standard

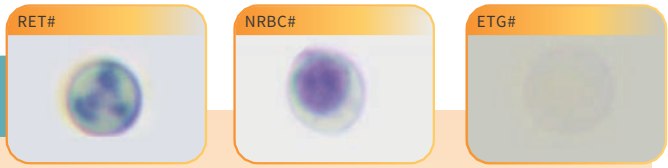
46+ parameters The AI-80Vet analyzer provides more comprehensive findings, empowering vets to make confident diagnoses

White Blood Cells (WBC): 7-Part Differential



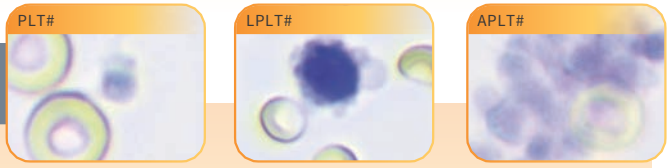
- White blood cell count (WBC)
- Neutrophils (NEU)
- Neutrophil stab granulocyte (NST)
- Neutrophil segmented granulocyte (NSG)
- Neutrophil hypersegmented granulocyte (NSH)
- Lymphocyte (LYM)
- Monocyte (MON)
- Eosinophil (EOS)
- Basophil (BAS)

Red Blood Cells (RBC): 5-Parameter Analysis



- Red blood cell count (RBC)
- Hemoglobin concentration (HGB)
- Hematocrit (HCT)
- Mean red blood cell volume (MCV)
- Mean corpuscular hemoglobin concentration (MCHC)
- Red Cell Distribution Width (RDW)
- Mean corpuscular hemoglobin (MCH)
- Hemoglobin Distribution Width (HDW)
- Erythrocyte ghost (ETG)
- Nucleated red blood cell (NRBC)
- Reticulocyte (RET)
- Mean Reticulocyte Volume (MRV)
- Reticulocyte Distribution Width (RDW)

Platelets (PLT): 3-Parameter Analysis



- Platelet count (PLT)
- Plateletcrit (PCT)
- Mean platelet volume (MPV)
- Large platelet (LPLT)
- Agglutinated platelet count (APLT)
- Platelet distribution width (PDW)

More parameters, more insights — empowering more accurate diagnoses

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TooToo Meditech Co., Ltd.

URINE

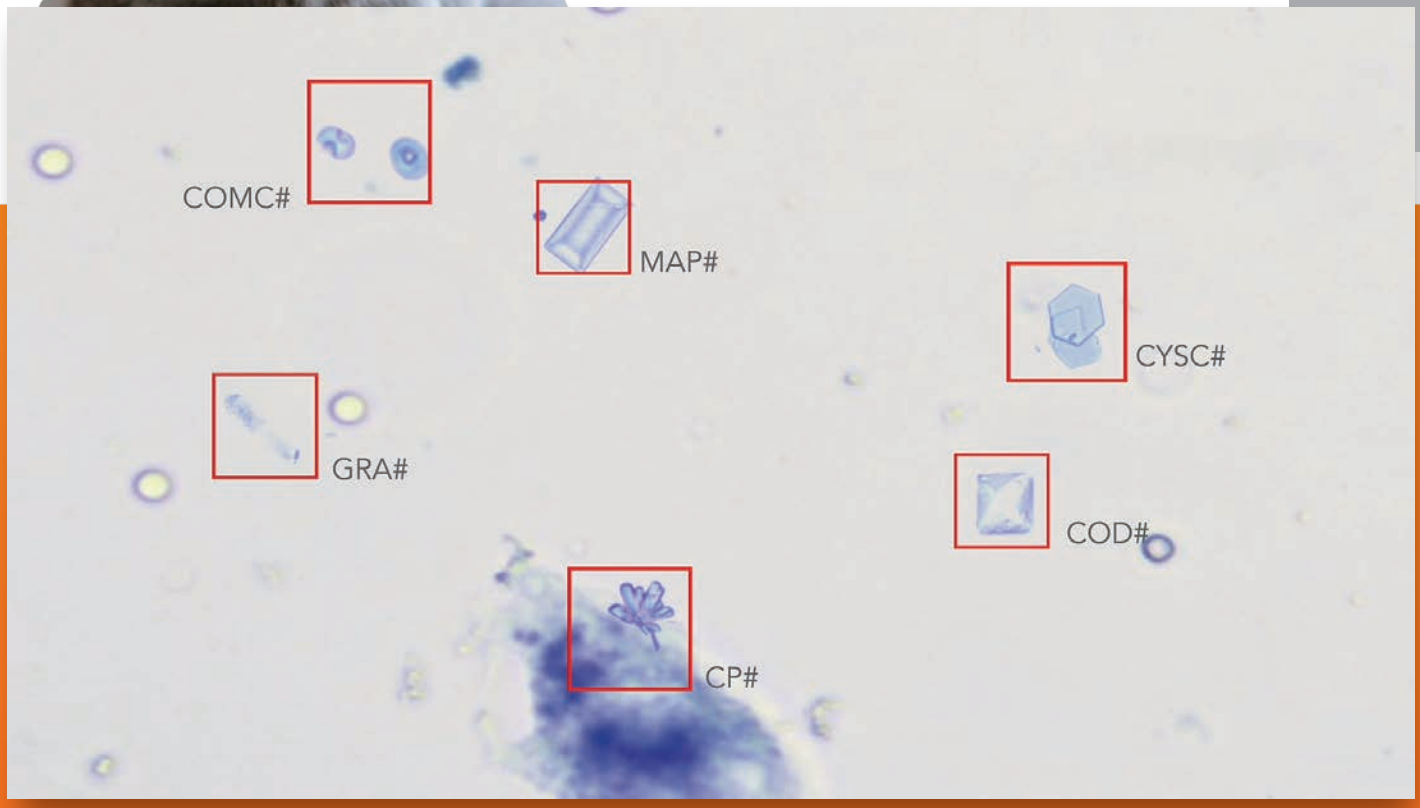
High-Quality Urine Sediment Examination

Less Time

- Sample addition within 15 seconds
- Automatic report generated within 11 minutes, minimum manual intervention required

More Accuracy

- AI recognizes 4 types of casts, 6 types of crystals, epithelial cells, sperms and mucus
- Scanning 1000+ fields to enhance detection rates



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URINE

More comprehensive results, providing the most clinical relevant elements, thus assisting to accelerate clinical diagnosis

Cast

- Hyaline cast
- Waxy cast
- Cellular cast
- Granular cast

Crystal

- Struvite
- Calcium oxalate monohydrate
- Uric acid
- Calcium oxalate dihydrate
- Cystine
- Calcium phosphate

Cell

- Renal tubular epithelial cells
- Squamous epithelial cells
- Transitional epithelial cells
- Sperm

Pathogenic Microorganism

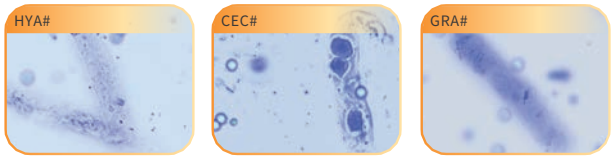
- Cocci
- Yeast
- Rods

Others

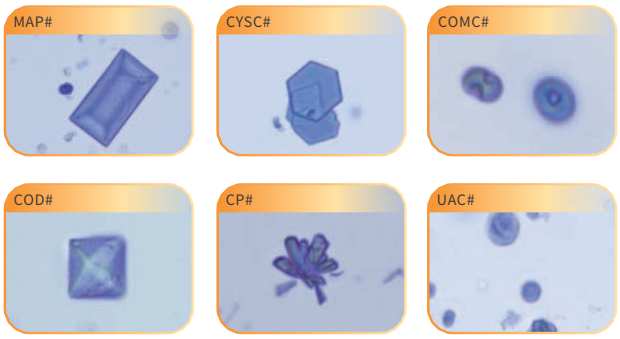
- Lipid droplet
- Mucus

Awalife Staining System: Urine Sediment Staining Atlas

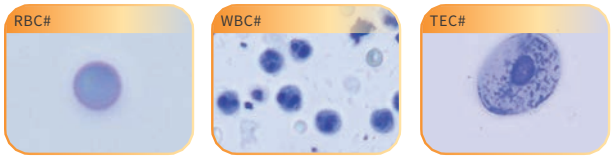
Cast



Crystal

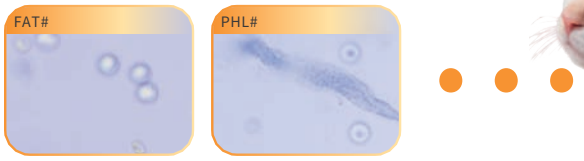


Cell



Pathogenic Microorganism

other



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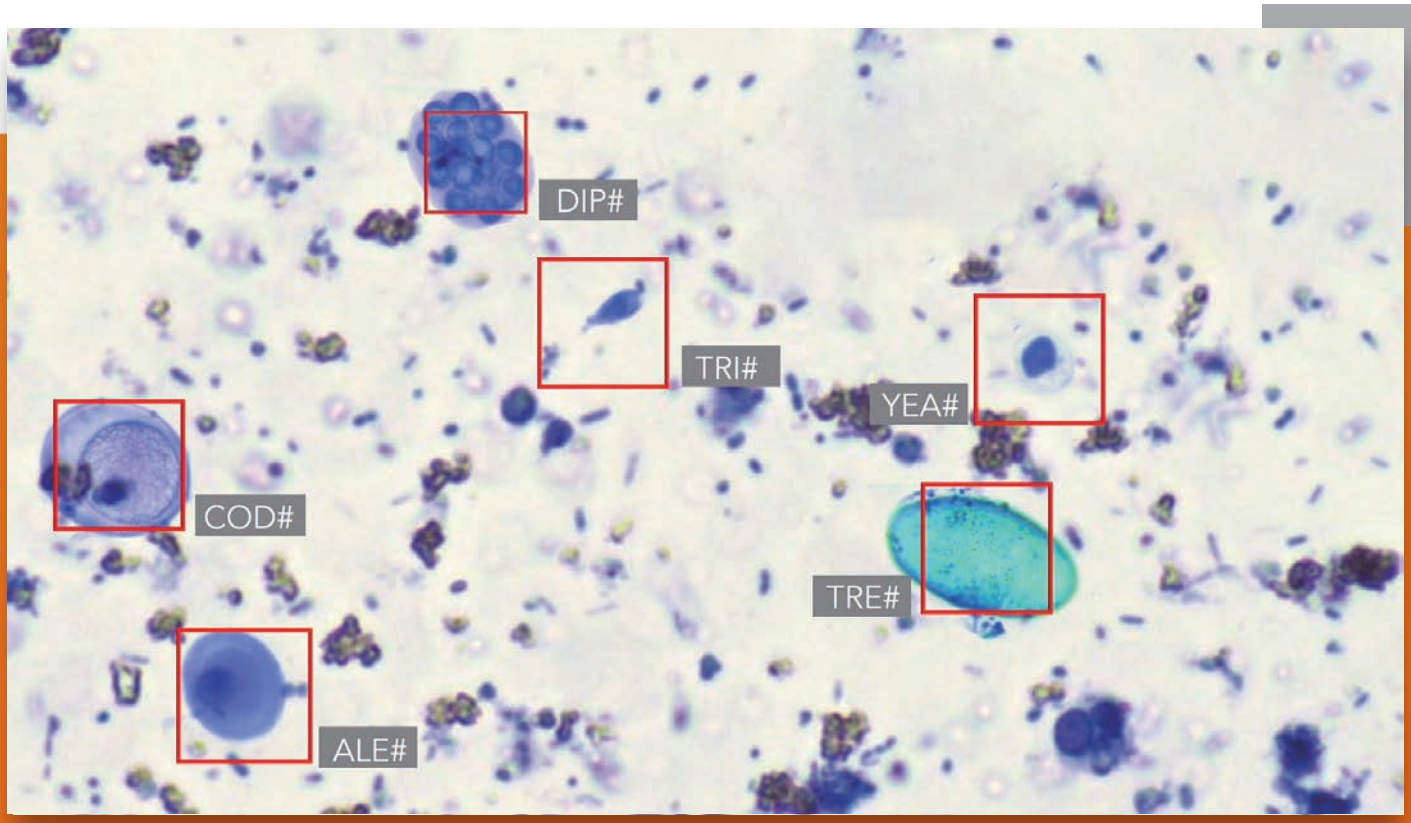
FECES

From Repetitive Inefficiency to Simple Efficiency



Time & Cost Saving

Tests are completed within 12 minutes, giving valuable time back to veterinarians

Professional and Comprehensive Report

32-parameter report, with image insights and diagnostic cues for pet owners' easy comprehension

Suspected Parasite Egg Report Section for streamlined re-diagnosis by veterinarians

More Accuracy

Quantitative microbiome assessment report for efficient analysis of the gastrointestinal system

Scanning 1000+/3000+ fields to enhance detection rates

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FECES

The unique automatic device allows detection of feces in a single run,during the veterinary visit

Parasite Eggs

- Ascaris egg
- Spirometra egg
- Hookworms egg
- Alaria egg
- Dipylidium caninum egg

Intestinal Protozoa

- Trichomonas
- Giardia cyst
- Giardia
- Coccidia
- Giardia trophozoite

Pathogenic Microorganism

- Campylobacter
- Spirochete
- Bacillus
- Yeast
- Helicobacter

Cell

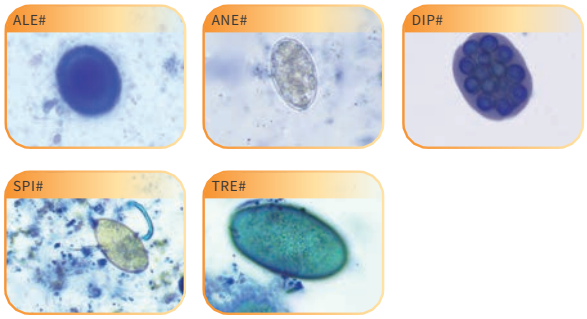
- RBC
- Epithelial cell
- WBC

Digestive Function

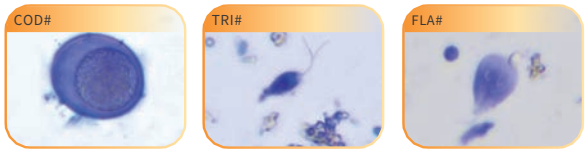
- Starch granules
- Plant fibers
- Fat droplets
- Muscle fibers

Awalife Staining System: Fecal Examination Atlas

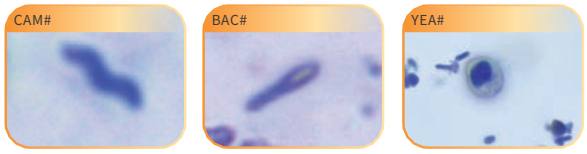
Parasite Eggs



Intestinal Protozoa

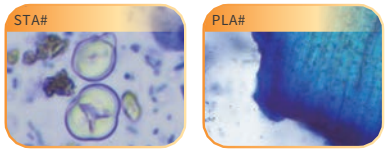


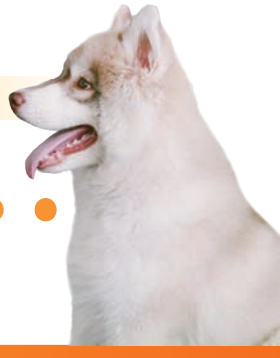
Pathogenic Microorganism



Cell

Digestive Function





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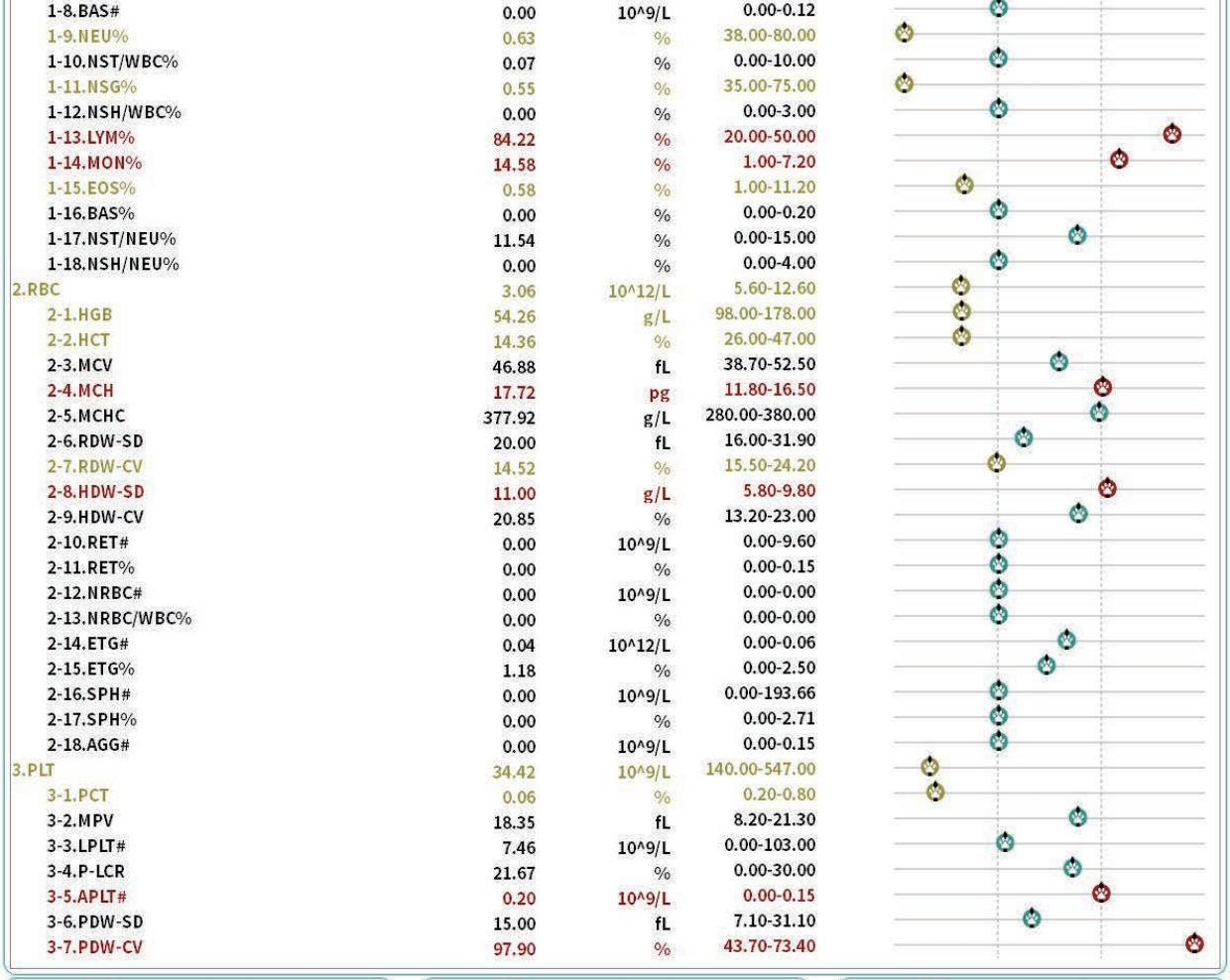
Blood Report

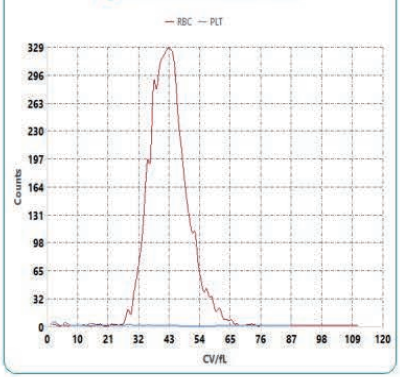
No.:	LIS:	Doctor:	Sample:	Owner:
Pet name:	Species:	Gender:	Pet age:	Weight:

Parameters

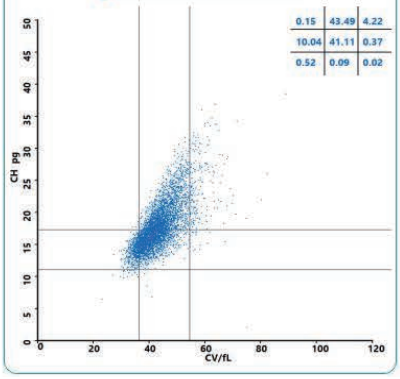
Detection items	Result	Unit	Reference
1.WBC	125.52	10^9/L	3.50-17.90
1-1.NEU#	0.79	10^9/L	2.30-12.58
1-2.NST#	0.09	10^9/L	0.00-0.80
1-3.NSG#	0.70	10^9/L	2.30-12.50
1-4.NHG(NSH#)	0.00	10^9/L	0.00-0.30
1-5.LYM#	105.71	10^9/L	0.73-6.60
1-6.MON#	18.30	10^9/L	0.00-0.90
1-7.EOS#	0.73	10^9/L	0.00-1.20
1-8.BAS#	0.00	10^9/L	0.00-0.12
1-9.NEU%	0.63	%	38.00-80.00
1-10.NST/WBC%	0.07	%	0.00-10.00
1-11.NSG%	0.55	%	35.00-75.00
1-12.NSH/WBC%	0.00	%	0.00-3.00
1-13.LYM%	84.22	%	20.00-50.00
1-14.MON%	14.58	%	1.00-7.20
1-15.EOS%	0.58	%	1.00-11.20
1-16.BAS%	0.00	%	0.00-0.20
1-17.NST/NEU%	11.54	%	0.00-15.00
1-18.NSH/NEU%	0.00	%	0.00-4.00
2.RBC	3.06	10^12/L	5.60-12.60
2-1.HGB	54.26	g/L	98.00-178.00
2-2.HCT	14.36	%	26.00-47.00
2-3.MCV	46.88	fL	38.70-52.50
2-4.MCH	17.72	pg	11.80-16.50
2-5.MCHC	377.92	g/L	280.00-380.00
2-6.RDW-SD	20.00	fL	16.00-31.90
2-7.RDW-CV	14.52	%	15.50-24.20
2-8.HDW-SD	11.00	g/L	5.80-9.80
2-9.HDW-CV	20.85	%	13.20-23.00
2-10.RET#	0.00	10^9/L	0.00-9.60
2-11.RET%	0.00	%	0.00-0.15
2-12.NRBC#	0.00	10^9/L	0.00-0.00
2-13.NRBC/WBC%	0.00	%	0.00-0.00
2-14.ETG#	0.04	10^12/L	0.00-0.06
2-15.ETG%	1.18	%	0.00-2.50
2-16.SPH#	0.00	10^9/L	0.00-193.66
2-17.SPH%	0.00	%	0.00-2.71
2-18.AGG#	0.00	10^9/L	0.00-0.15
3.PLT	34.42	10^9/L	140.00-547.00
3-1.PCT	0.06	%	0.20-0.80
3-2.MPV	18.35	fL	8.20-21.30
3-3.LPLT#	7.46	10^9/L	0.00-103.00
3-4.P-LCR	21.67	%	0.00-30.00
3-5.APLT#	0.20	10^9/L	0.00-0.15
3-6.PDW-SD	15.00	fL	7.10-31.10
3-7.PDW-CV	97.90	%	43.70-73.40



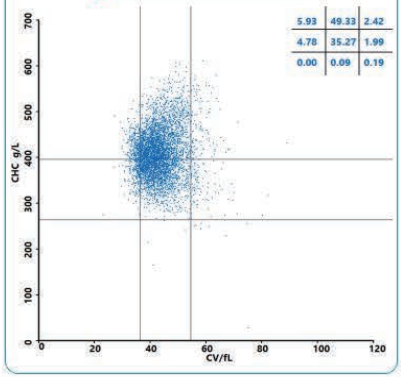
PLT-RBC Distribution chart



CH-CV Distribution chart



CHC-CV Distribution chart



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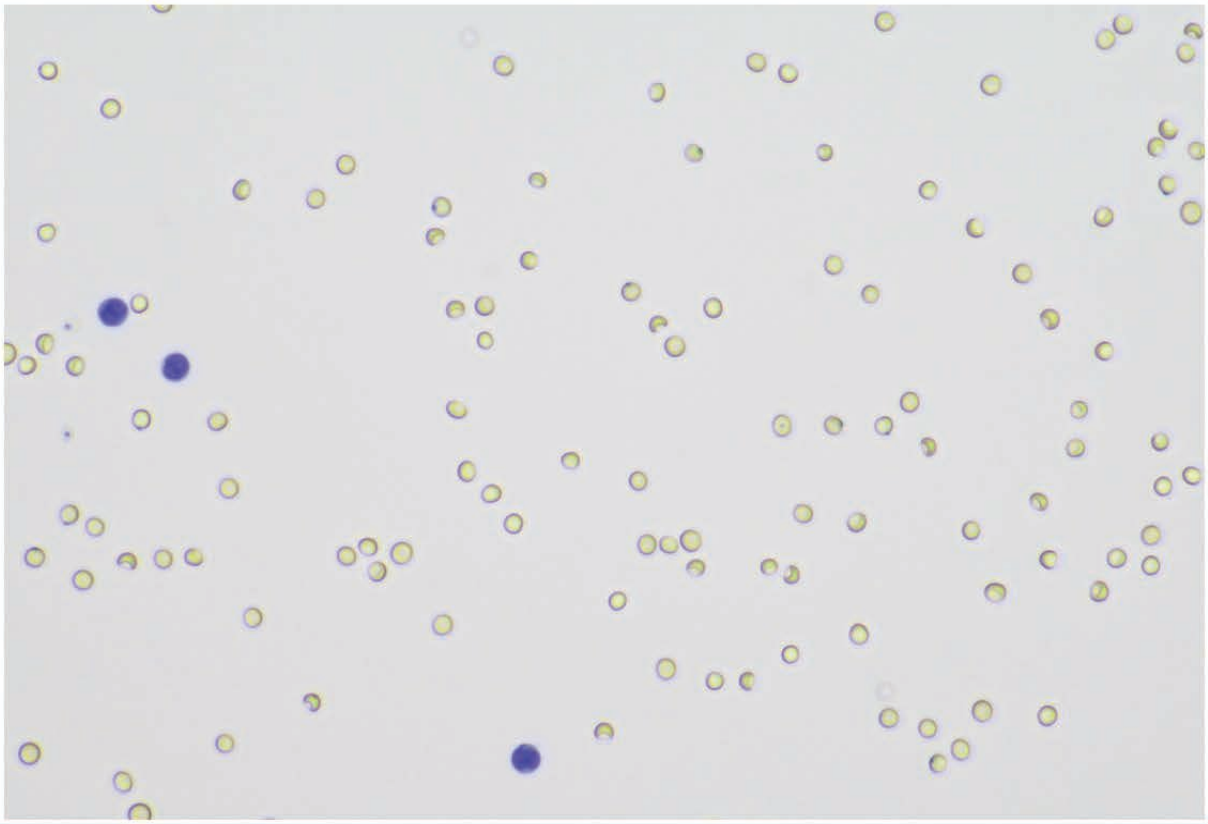
Blood Morphology Report

No.:	LIS:	Doctor:	Sample:	Owner:
Pet name:	Species:	Gender:	Pet age:	Weight:

RBC & PLT distribution chart



HGB distribution chart

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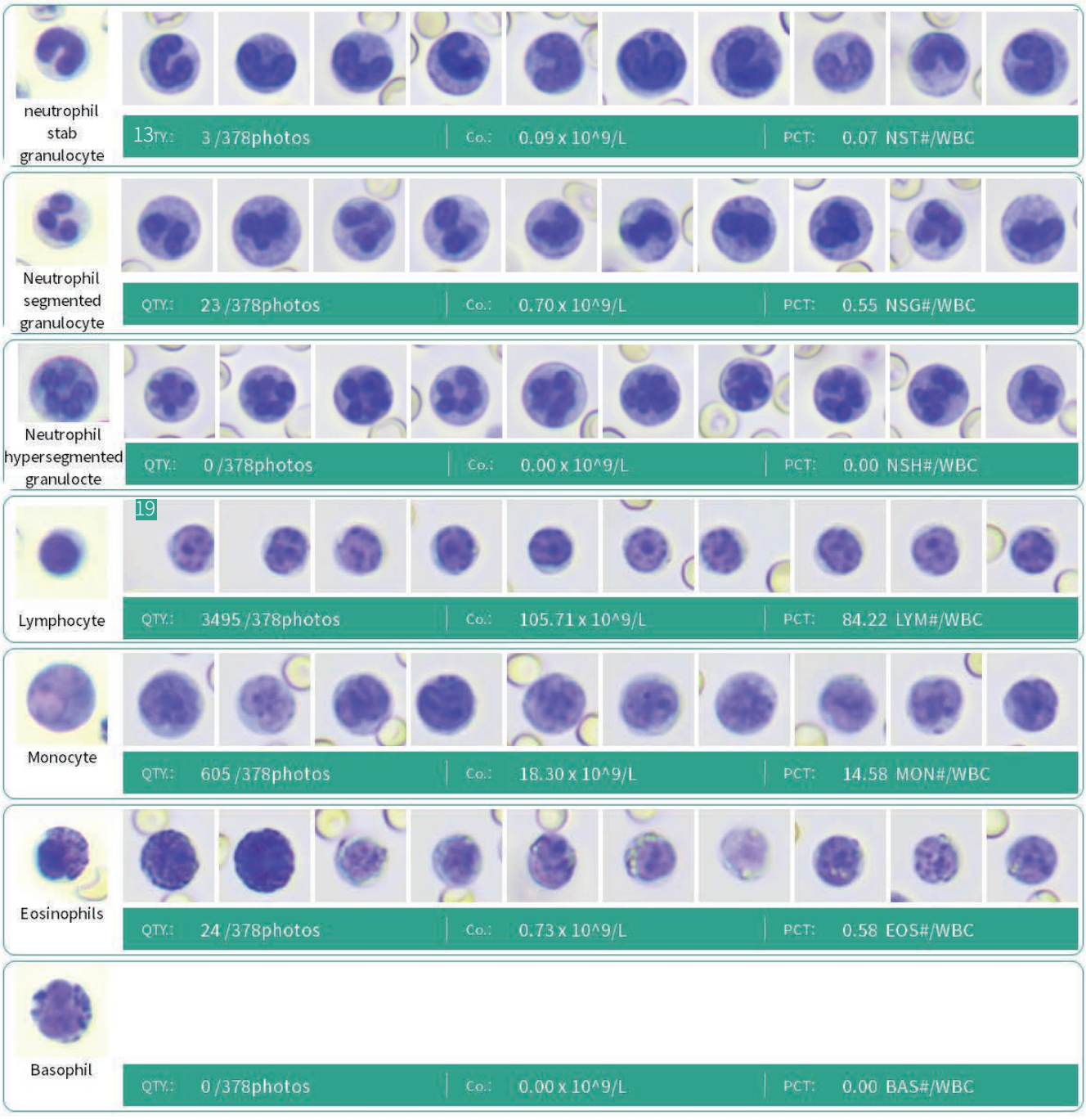

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Diagnostic Recommendation

Single diagnosis:

I、【WBC>17.90】It is common in inflammation, hematological diseases, malignant tumors and so on.

1、【NEU#<2.30】It is common in serious disease consumption, poisoning, physical and chemical damage and so on.

2、【LYM#>6.60】It is common in viral infection, lymphoma, lymphatic leukemia and so on.

3、【MON#>0.90】It is common in chronic infectious diseases, convalescence of diseases, and the use of glucocorticoid drugs.

II、【RBC<5.60】It is common in acute / chronic hemorrhagic anemia, hemolytic anemia, nutritional anemia, aplastic anemia and so on.

1、【HGB<98.00】It is common in acute / chronic hemorrhagic anemia, hemolytic anemia, nutritional anemia, aplastic anemia and so on.

2、【HCT<26.00】It is common in anemia or bleeding caused by various causes, and the increase in plasma volume caused by various causes.

3、【HDW-SD>9.80】It is suggested that the hemoglobin content of single red blood cell is not uniform, which can be seen in hereditary red blood cell abnormality 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.

1、【PCT<0.2】It suggests thrombocytopenia.

2、【APLT#>0.15】It is common in samples where micro-agglutination is not visible to the naked eye,Commonly seen in pathological conditions such as immune-mediated thrombocytopenia, azotemia, infectious diseases, malignant tumours, heart disease, drug-induced disorders.

Combined diagnosis:

1、【WBC>17.90、MON#>0.9】It is suggested that chronic inflammation or the middle and later stage of inflammation.

2、【RBC<5.60、HGB<98.00】It is suggested that positive cell anemia is common in aplastic anemia, acute blood loss within 40 hours, hemolysis within 40 hours, low hematopoietic function, leukemia and so on.

3、【HGB<98.00、RET#<9.60】It is suggested that non-regenerative anemia is common in primary / secondary erythropoietic dysfunction (such as inflammation, tumor, chronic nephropathy, chronic liver disease, thyroid / adrenocortical dysfunction, etc.), iron / copper / folic acid / VB12 deficiency, lead poisoning, bone marrow fibrosis, osteosclerosis, hypoplastic anemia and so on.

4、【LYM#>50、LYM%>70%】It is strong suspicion of lymphoma, and it is recommended to combine imaging studies with pathological examinations for a comprehensive diagnosis.

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Urine Report

No.:	LIS:	Doctor:	Sample:	Time: 2024/03/02(22:26:28)
Pet name:	Species:	Gender:	Pet age:	Owner:

Color: Yellowish **Transparency: Turbid** **Co.: 1x**

Parameters

Detection items	Result/Unit	Result/Unit	Reference	Negative	Positive
1.Cast					
1-1.Hyaline cast	0.00/uL	0.00/LPF	0-0.8/uL	−	
1-2.Cellular cast	0.00/uL	0.00/LPF	0-0/uL	−	
1-3.Granular cast	0.24/uL	0.22/LPF	0-0/uL		+
1-4.Waxy cast	0.00/uL	0.00/LPF	0-0/uL	−	
2.Crystal					
2-1.Struvite#	56.80/uL	3.34/HPF	0-5/uL		+
2-2.Calcium oxalate monohydrate#	0.00/uL	0.00/HPF	0-0/uL	−	
2-3.Calcium oxalate dihydrate#	0.57/uL	0.03/HPF	0-3/uL	−	
2-4.Calcium phosphate#	0.61/uL	0.04/HPF	0-0/uL		+
2-5.Uric acid	0.00/uL	0.00/HPF	0-0/uL	−	
2-6.Cystine	0.00/uL	0.00/HPF	0-0/uL	−	
3.Cells					
3-1.RBC	0.00/uL	0.00/HPF	0-25/uL	−	
3-2.WBC	0.00/uL	0.00/HPF	0-25/uL	−	
3-3.Renal tubular epithelial cell	0.00/uL	0.00/HPF	0-0/uL	−	
3-4.Squamous epithelial cell	0.00/uL	0.00/HPF	0-7/uL	−	
3-5.Transitional epithelial cell	0.00/uL	0.00/HPF	0-3/uL	−	
3-6.Sperm	0.00/uL	0.00/HPF	0-0/uL	−	
4.Germ					
4-1.Cocci	119.29/uL	7.03/HPF	0-0/uL		+
4-2.Bacillus	19.65/uL	1.16/HPF	0-0/uL		+
4-3.Yeast	0.00/uL	0.00/HPF	0-0/uL	−	
5.Others					
5-1.Lipid drop	667.64/uL	52.42/HPF	0-160/uL		+
5-2.MUCUS	0.00/uL	0.00/LPF	0-3/uL	−	

Diagnostic recommendation

1、【Yellowish brown】It is common in concentrated urine, bilirubin urine or biliverdin urine, excessive bile pigment in urine.
2、【MAP#>5】It is common in urinary tract bacterial infection, low urine volume, alkaline urine or elevated magnesium level in diet.
3、【CP#>0】It is commonly associated with conditions that cause hypercalciuria or hyperphosphatemia.
4、【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.
5、【BAC#>0】It is suspected that there are many interference factors in bacterial detection (such as amorphous crystallization, etc.). This result is for reference only, and it is recommended to confirm bacterial culture.
6、【GRA#>0】It is common in accelerated renal tubular degeneration and glomerular disease.
7、【FAT#>160】It can be seen in the urine of normal cats and is often caused by obesity, cystitis, hypothyroidism, diabetes or artificial catheterization.

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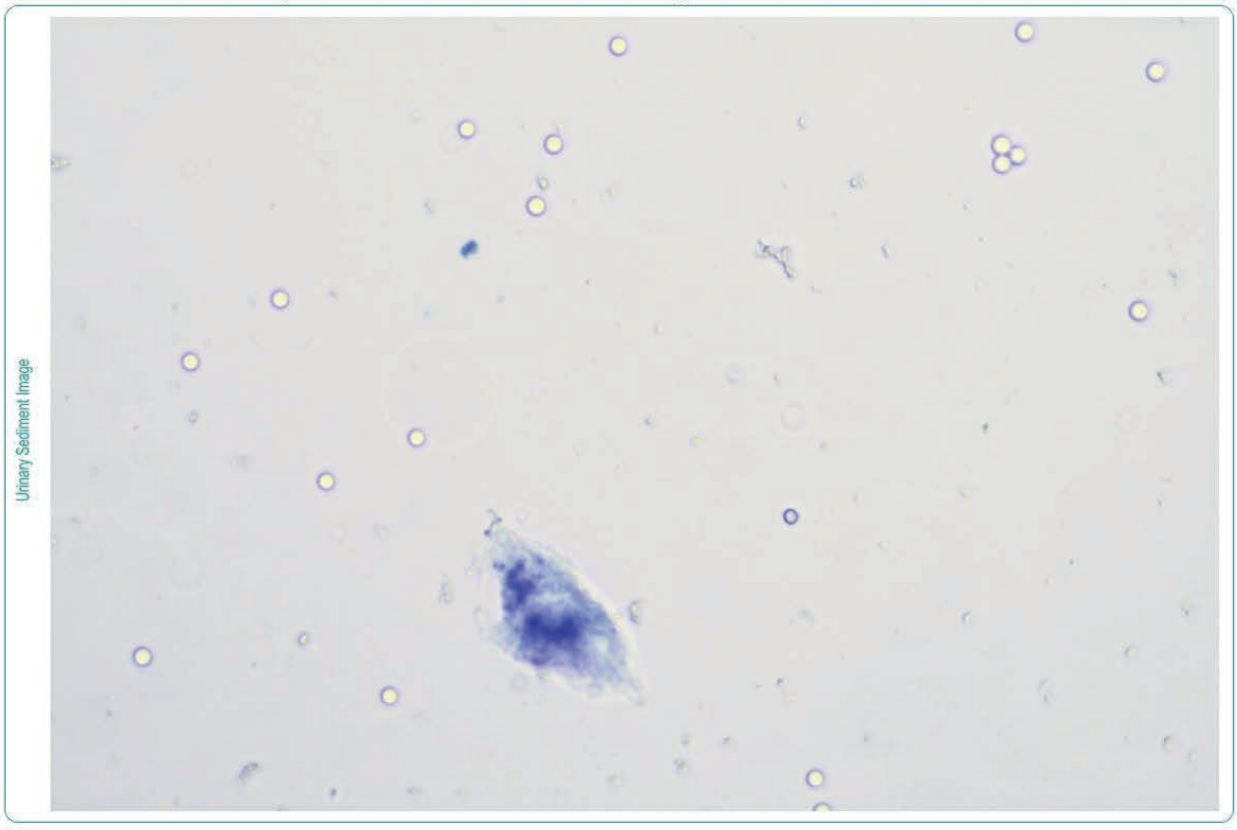
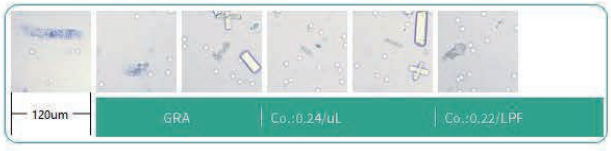
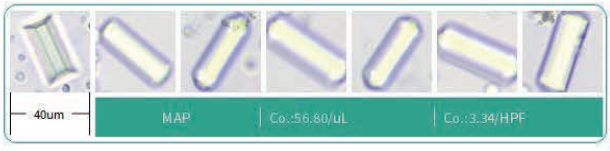
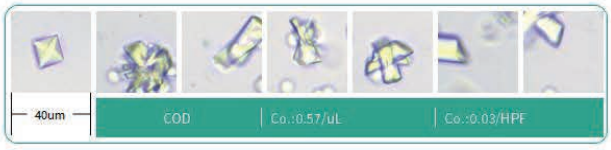
Urine Morphology Report

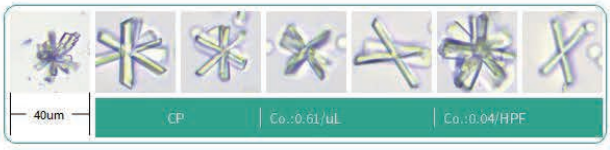
No.:	LIS:	Doctor:	Sample:	Time:
Pet name:	Species:	Gender:	Pet age:	Owner:

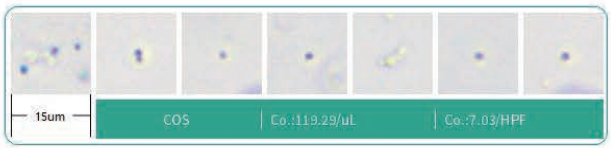


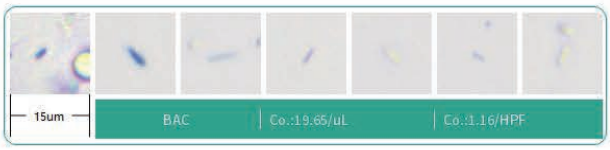


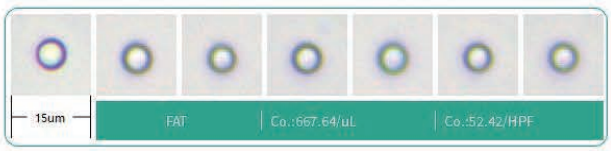












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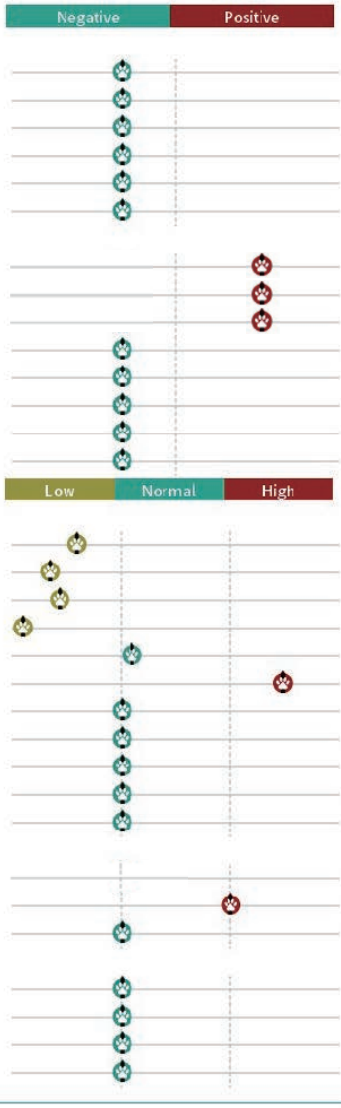
Feces Report

No.:	LIS:	Doctor:	Sample:	Owner:
Pet name:	Species:	Gender:	Pet age:	Weight:0.0kg

Texture: Loose stools **Smell: Smelly** **Color: pink**

Parameters

Detection items	Result/Unit	Result/Unit	Reference
1.Parasite egg			
1-1.Ascaris(ALE#)	0.00	0.00/LPF	0-0
1-2.Hookworm(ANE#)	0.00	0.00/LPF	0-0
1-3.Tapeworm(CEE#)	0.00	0.00/LPF	0-0
1-4.Dipylidium caninum(DIP#)	0.00	0.00/LPF	0-0
1-5.Spirometra (SPI#)	0.00	0.00/LPF	0-0
1-6.Alaria alata(TRE#)	0.00	0.00/LPF	0-0
2.Intestinal protozoa.			
2.1 Trichomonas (TRI#)	170.00	23.00/LPF	0-0
2.2 Giardia (GIA)	2.00	0.40/LPF	0-0
2.3 Giardia Trophozoite (GIAT#)	2.00	0.40/LPF	0-0
2-4.Giardia Cyst (GIAC#)	0.00	0.00/LPF	0-0
2-5.Isosporium coccidia(COD#)	0.00	0.00/LPF	0-0
2-6.Isosporium coccidia 0(COD0#)	0.00	0.00/LPF	0-0
2-7.Isosporium coccidia 1(COD1#)	0.00	0.00/LPF	0-0
2-8.Isosporium coccidia 2(COD2#)	0.00	0.00/LPF	0-0
3.Germ			
3-1.Cocci(COS#)	71.76/ug	20.79/HPF	145-729/ug
3-2.Rods(BACI#)	128.28/ug	37.17/HPF	510-13904/ug
3-3.Brevibacterium(SBAC#)	108.68/ug	31.49/HPF	321-12462/ug
3-4.Crude bacilli(CBAC#)	1.33/ug	0.39/HPF	15-1650/ug
3-5.Thin bacilli (TBAC#)	18.27/ug	5.29/HPF	0-185/ug
3-6.Cocci/Rods(C/B)	0.559	0.559	0.017-0.156
3-7.Campylobacter(CAM#)	0.00/ug	0.00/HPF	0-30/ug
3-8.Bacillus(BAC#)	0.00/ug	0.00/HPF	0-40/ug
3-9.Serpentine spirochete(SS1#)	0.00/ug	0.00/HPF	0-0/ug
3-10.Helicobacter(SS2#)	0.00/ug	0.00/HPF	0-0/ug
3-11.Yeast(YEA#)	0.00/ug	0.00/HPF	0-150/ug
4.Cells			
4-1.RBC#	87.00/ug	19.00/HPF	0-0/ug
4-2.WBC#	0.16/ug	0.05/HPF	0-0/ug
4-3.Epithelial cells(EPC#)	0.00/ug	0.00/HPF	0-12/ug
5.Digestive function			
5-1.Starch granule(STA#)	0.00/ug	0.00/HPF	0-9/ug
5-2.Lipid drop(LFAT#)	0.00/ug	0.00/HPF	0-1/ug
5-3.Plant fiber(PLA#)	0.00/ug	0.00/HPF	0-0/ug
5-4.Muscle fiber(AF#)	0.00/ug	0.00/HPF	0-0/ug



Diagnostic recommendation

1、【Loose stools】It is common in excessive intestinal mucosal secretions, hyperperistalsis, infectious / non-infectious diarrhea, food intolerance, especially in acute / chronic gastroenteritis.
2、【Smelly】The smell of feces is normal.
3、【TRI#>5】Suspected Trichomonas infection.
4、【C/B>0.156】It is common in intestinal flora disorders caused by diseases and the use of antibiotics.
5、【RBC#>5】Common in the colon, rectum, anus and other bleeding.
6、【WBC#>0】Common in all kinds of enteritis (bacterial, allergic, viral, parasitic, etc.), tumor and so on.
7、【LFAT#>1】Common in all kinds of enteritis, dyspepsia, pancreatic insufficiency, acute / chronic pancreatitis, pancreatic cancer and so on.

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.
—《Methods for laboratory examination of parasitic diseases》

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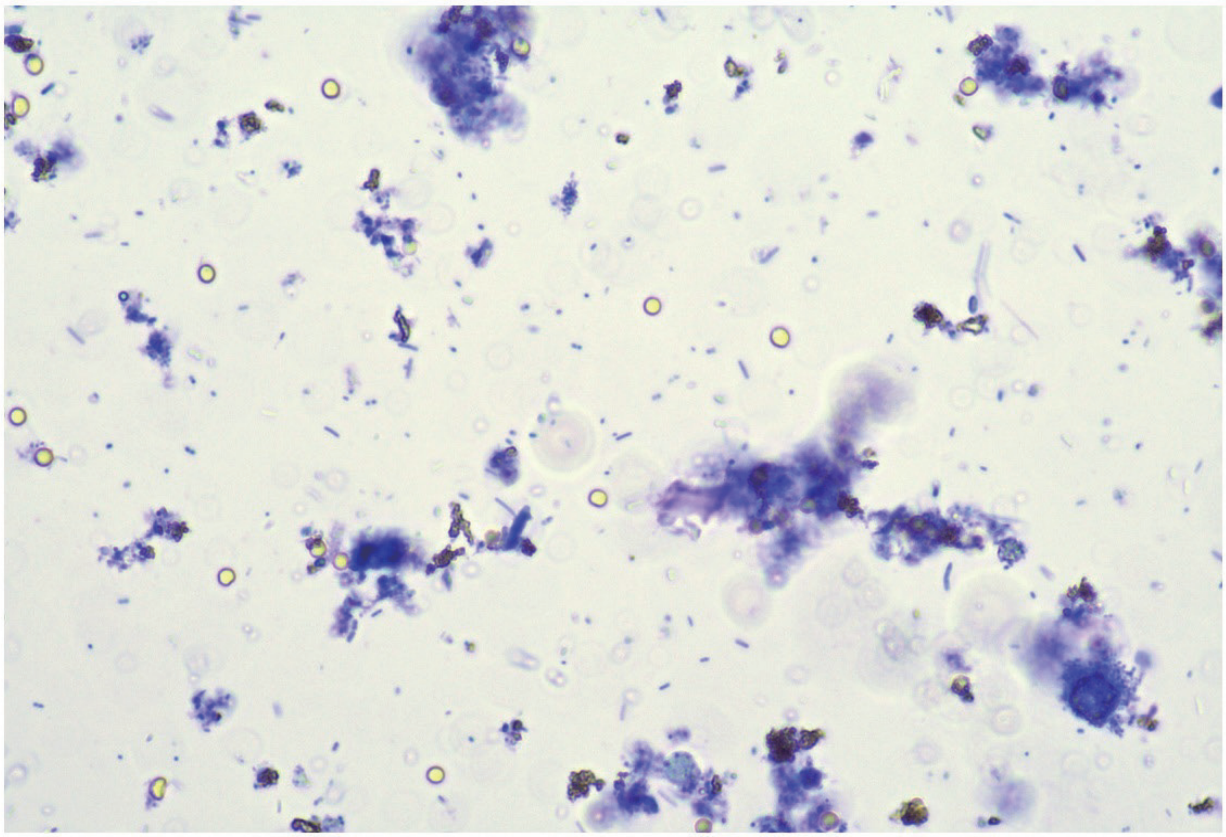
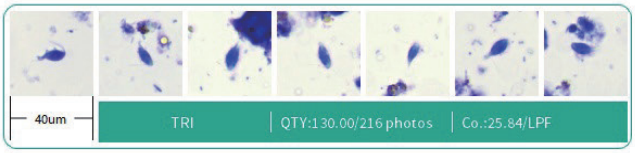
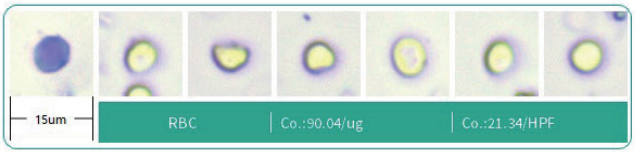
Feces Morphology Report

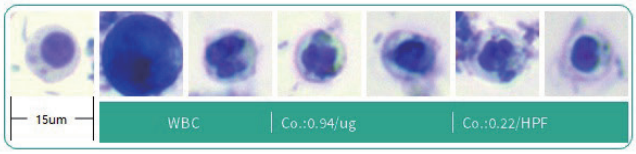
No.:	LIS:	Doctor:	Sample:	Owner:
Pet name:	Species:	Gender:	Pet age:	Weight:

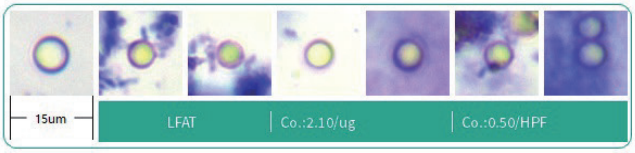
Germ Image

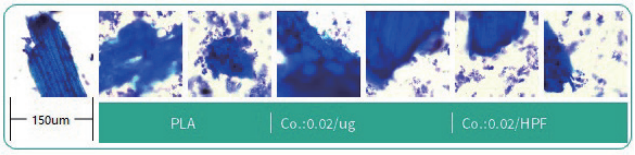


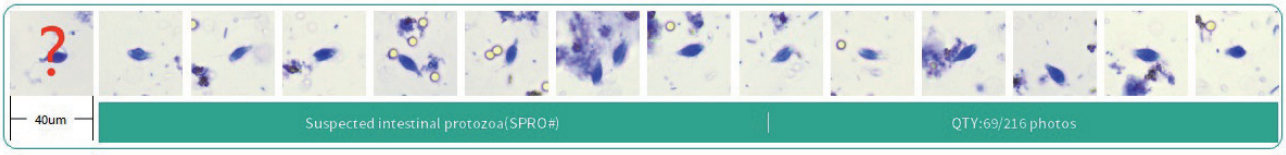












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