

# Operation Training

AI-100Vet Multifunctional Morphological Analyzer

# CONTENT

**01/** Machine Outlook & Operation  
(On & Off)

**02/** User Interface (UI)

**03/** Sample Operation Process

**04/** Problems & Solutions

# 1. Machine Outlook & Operation

# The Front View

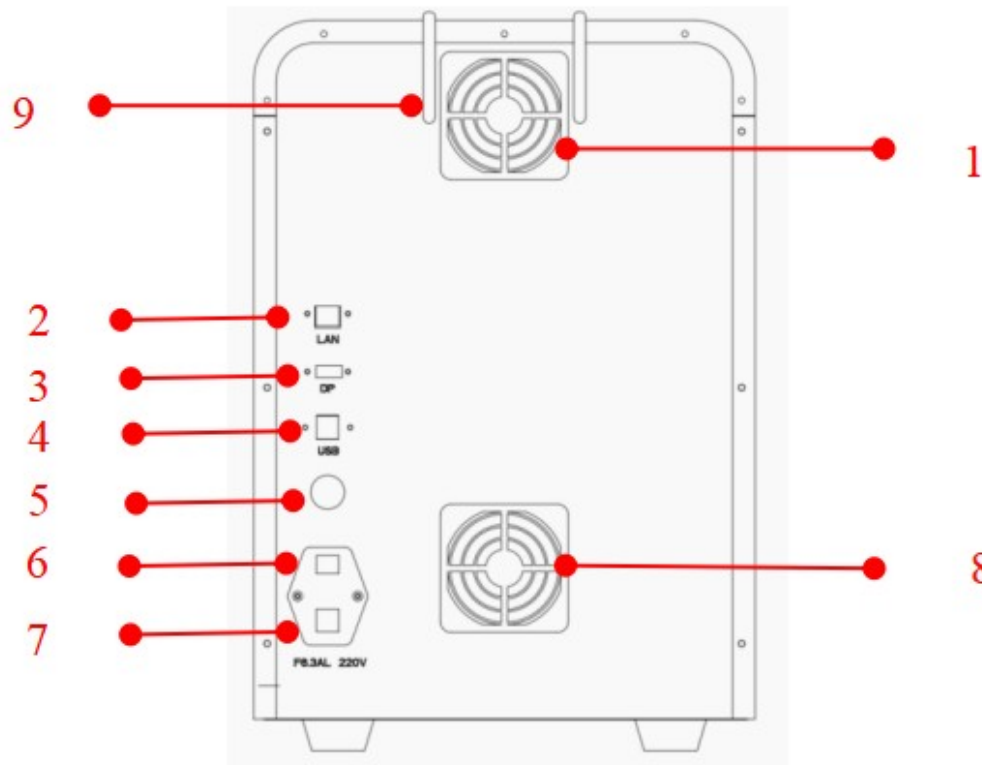
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- 1) Display and Touch Screen
- 2) Chip Placement Port
- 3) Power Indicator

# The Rear View

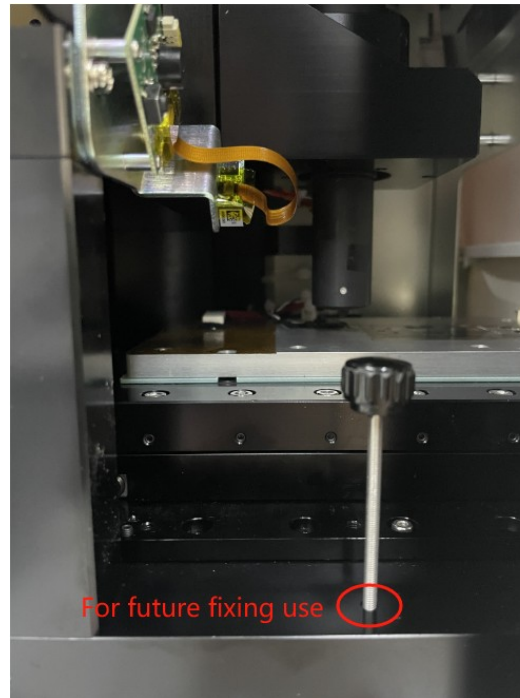
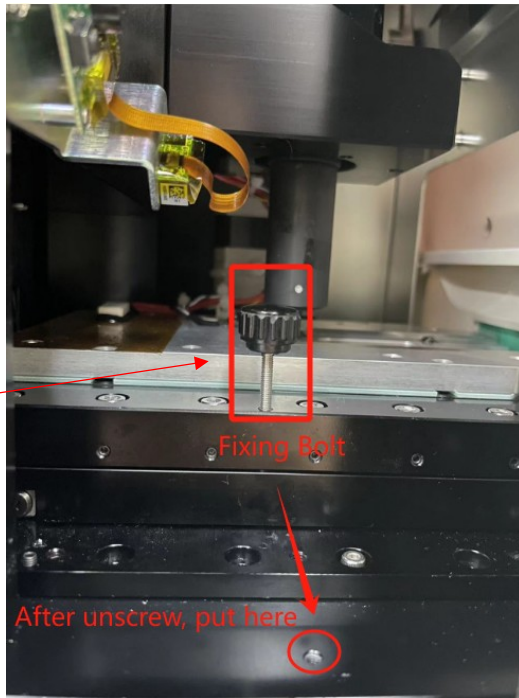
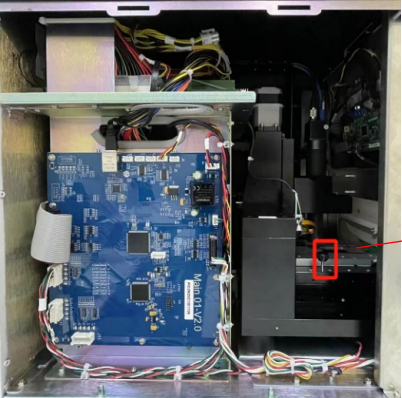
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- 1) Intake Vent
- 2) Network Port(LAN)
- 3) Display Port(DP)
- 4) USB3.0 Interface x2
- 5) Power Button
- 6) Power Switch
- 7) Power Supply Connector
- 8) Exhaust Vent
- 9) Wi-Fi Antenna

# The **1st** Step: Remove the Fixing Bolt

## Attention!!!



01

Open the left panel and unscrew the bolt.

02

Put the bolt into the dedicated hole for future use.

The image features a white background with decorative green geometric shapes. In the top right, there is a series of overlapping, semi-transparent green trapezoidal shapes that create a sense of depth and movement. In the bottom left, there is a similar series of overlapping green shapes, also semi-transparent, mirroring the design in the top right. The text 'Turn on / Turn Off' is centered in the middle of the page.

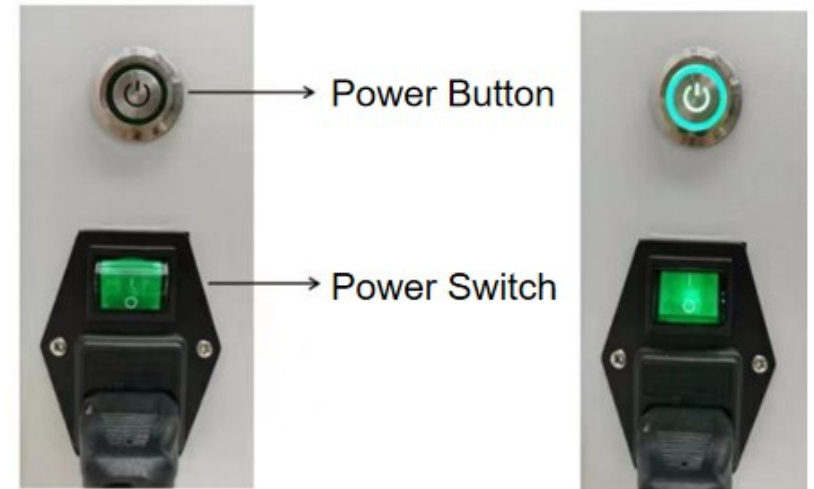
**Turn on / Turn Off**

# Turn On

① Press the power switch,  
light on

② Press the power button,  
light on and hint tone

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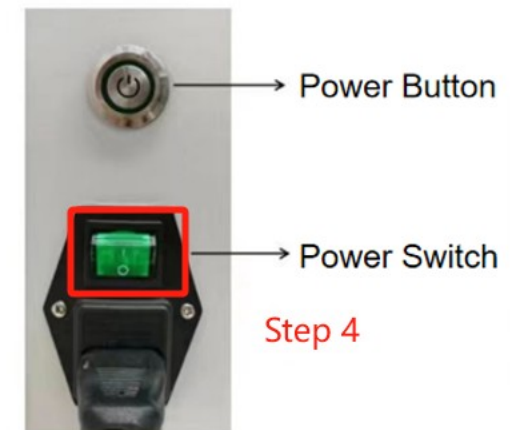
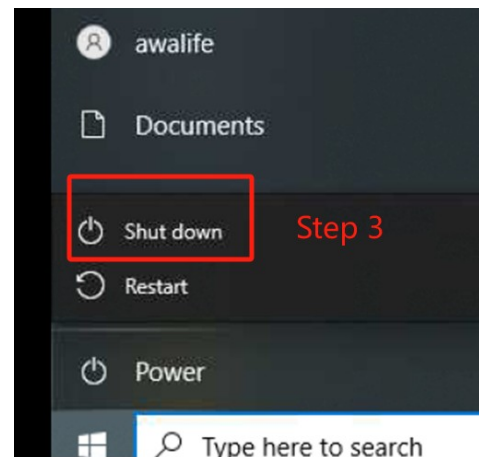
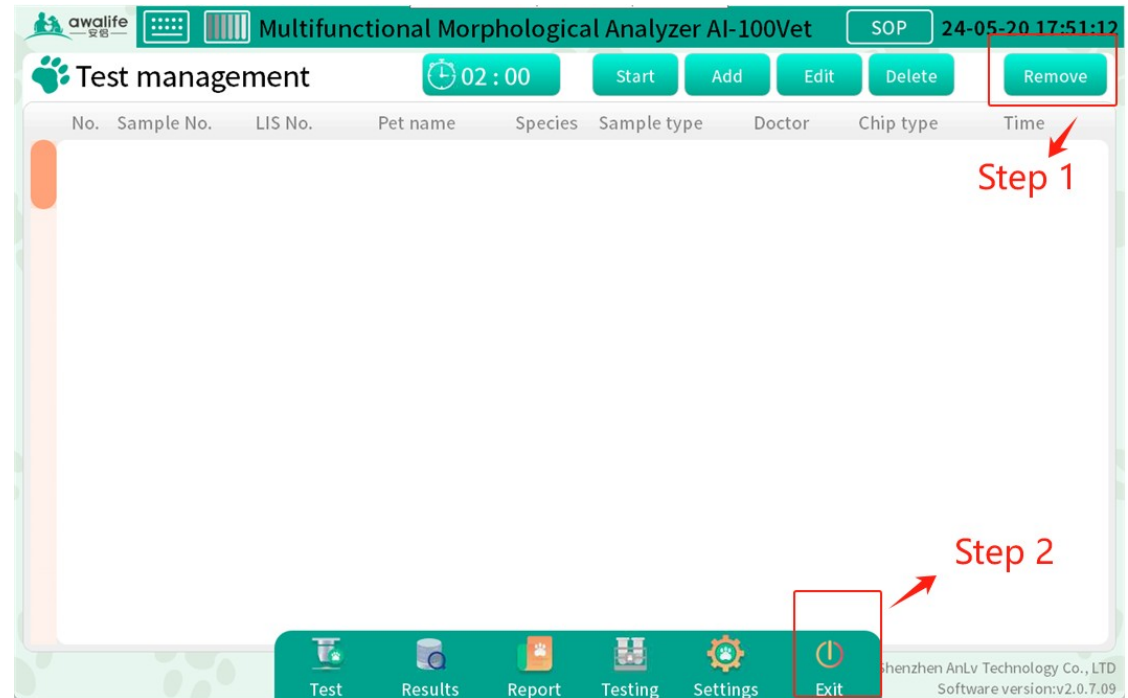


Off

On

# Turn Off

- ① Remove the Chip/Slide
- ② Exit the Awalife Software
- ③ Shut down the Windows system, the button light automatically off
- ④ Manually turn off power control, light off

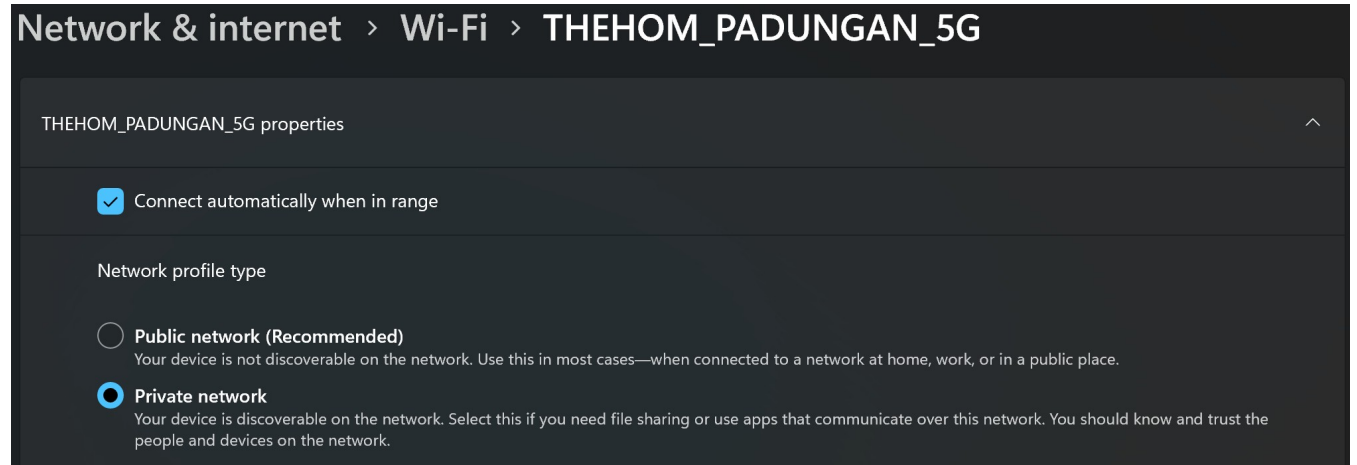




# **AI-100VET File Sharing with Other PCs**

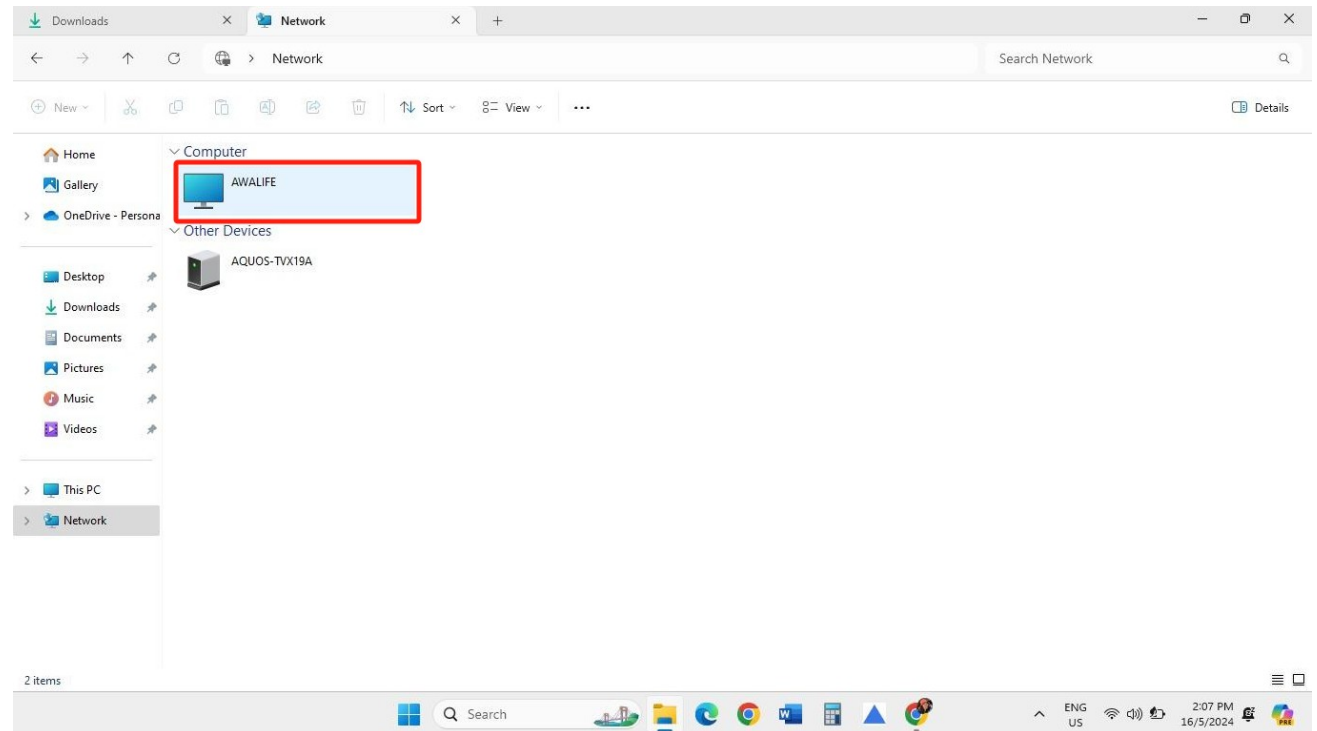
# Step 1 : On Awalife Machine and PCs

- ① Ensure the Awalife is connected to the same LAN with PCs
- ② On Awalife and the PCs, set “Network profile type” as Private network



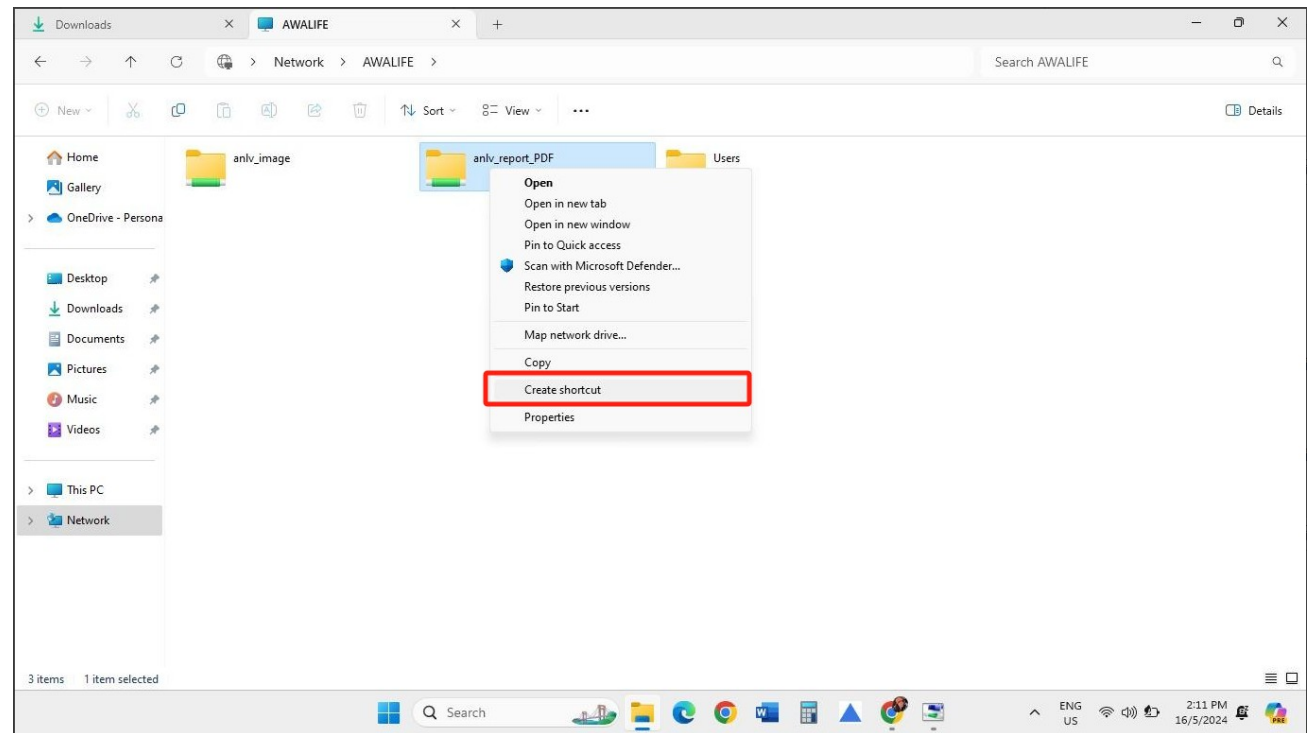
# Step 2: On the PCs

Open File Explorer. In the left-hand navigation pane, click “Network” and select “awalife”



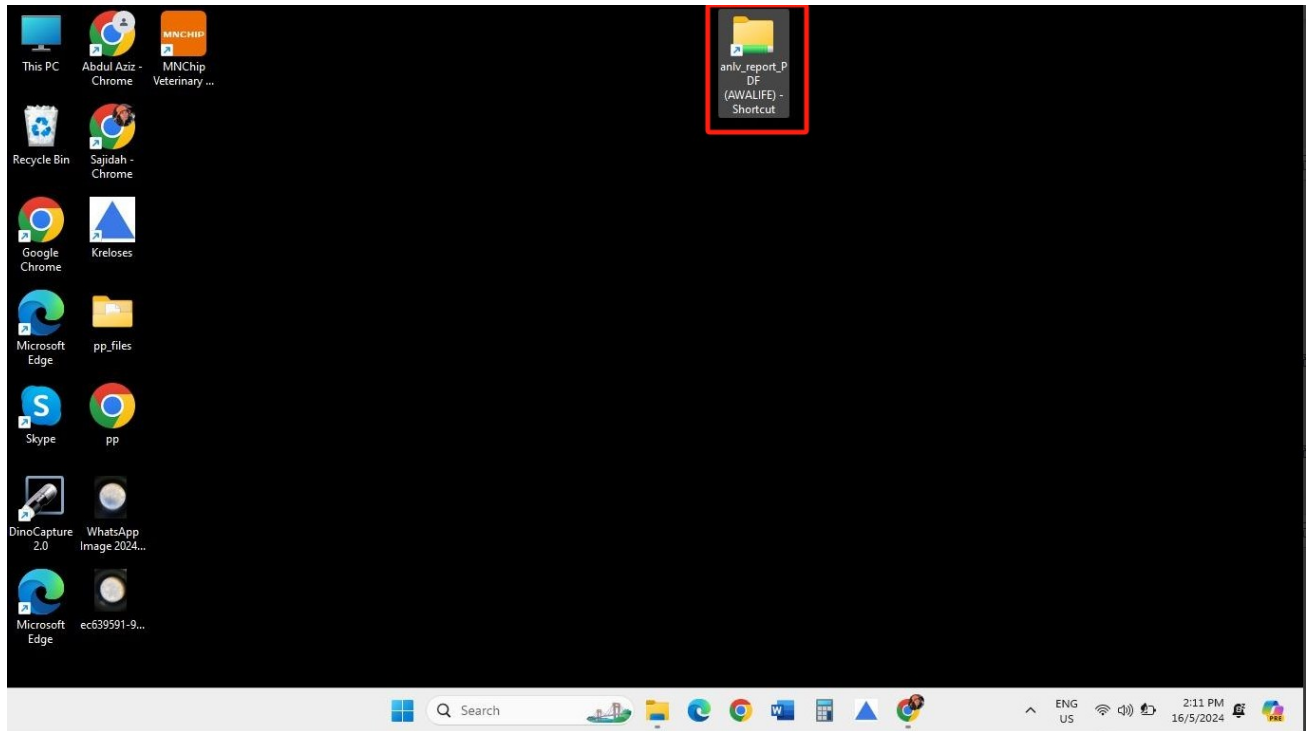
# Step 3: On the PCs

- ① Look for “anlv\_report\_PDF” and right click
- ② Select “Create shortcut”



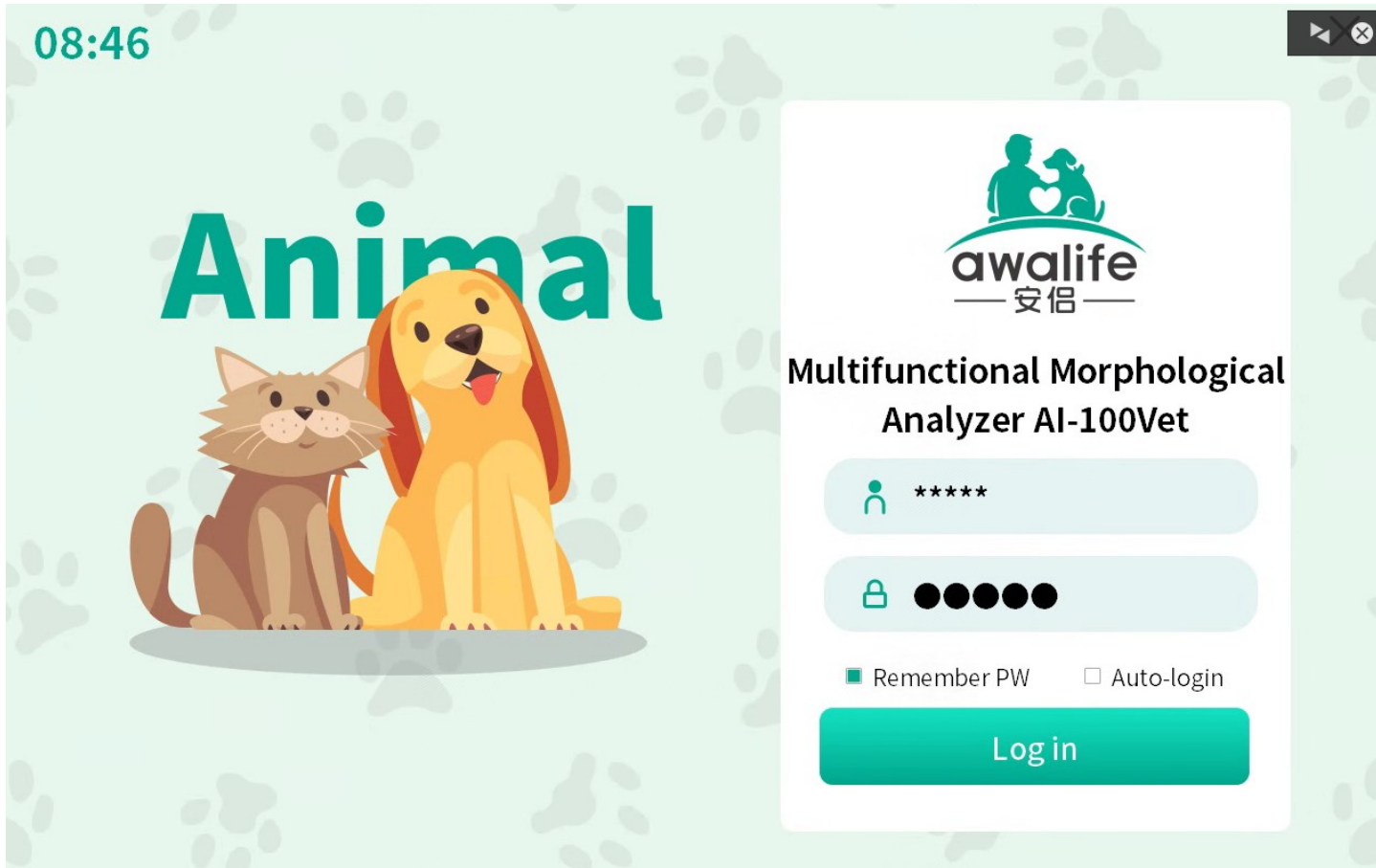
# Completed on the PCs

The “anlv\_report\_PDF” will appear on the desktop



The background features abstract, layered geometric shapes in various shades of green, including light mint, medium seafoam, and vibrant emerald. These shapes are arranged in a way that creates a sense of depth and movement, with some appearing to overlap others. The overall aesthetic is clean, modern, and minimalist.

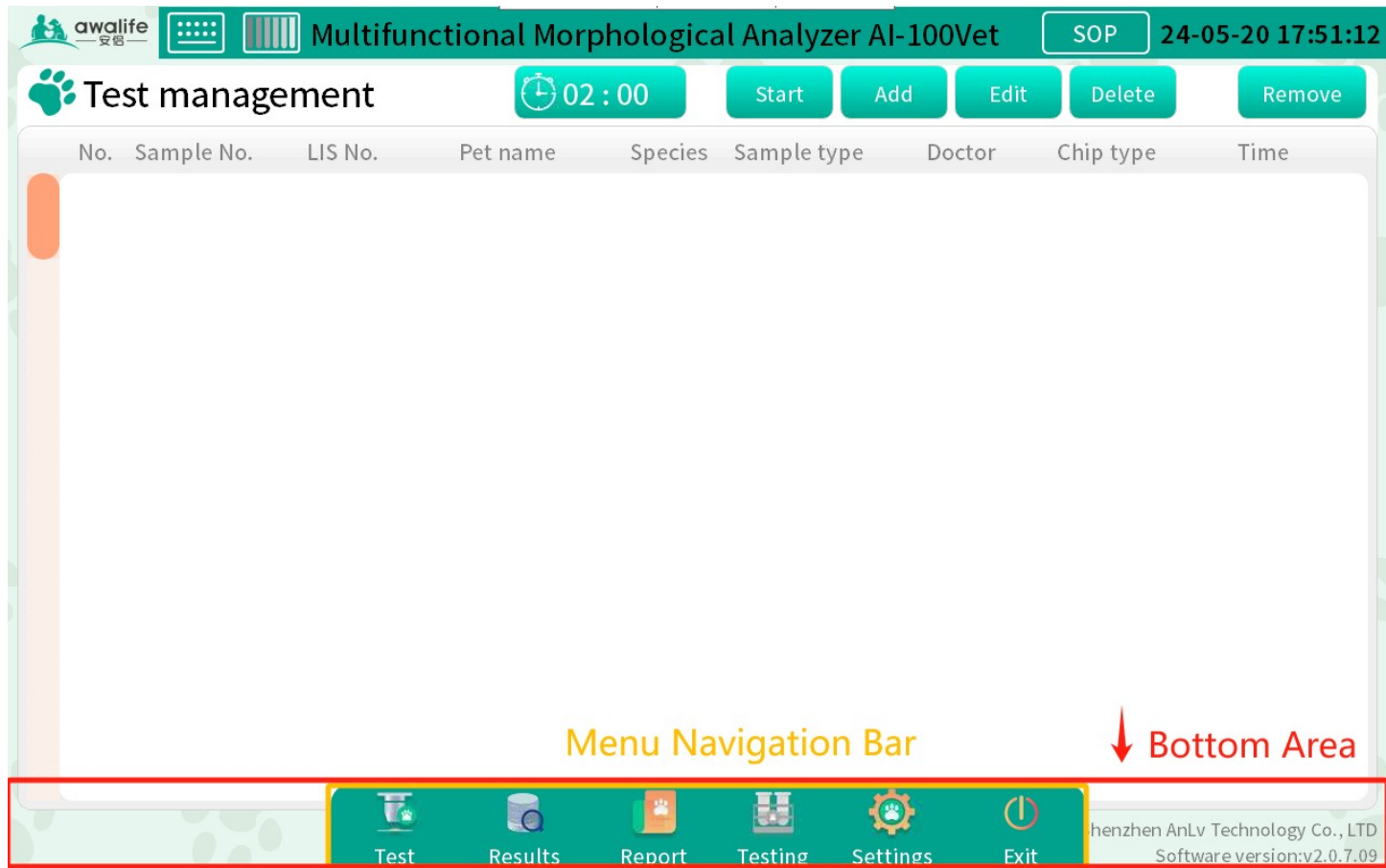
# **User Interface**



01

## Default Run of Awalife Software

Click “Log in”



## 02 Menu Navigation Bar

Touch the bottom area, can open or hide menu navigation

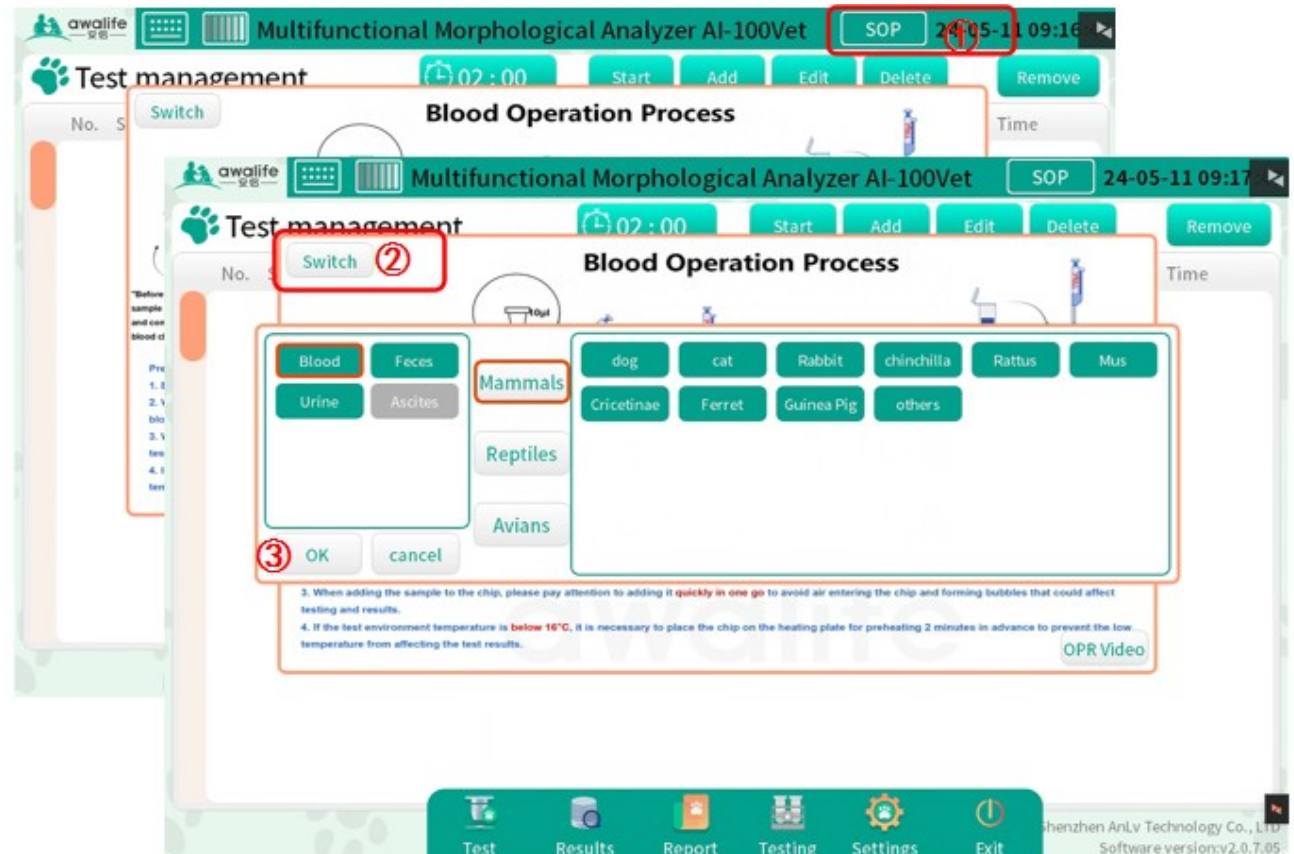


**03** **3 Functions  
on the Upper  
Part**

Click to use these functions.

# How to Use SOP (Picture Form)

- ① Click “SOP”
- ② Click “Switch”
- ③ Select Sample Type, Select Species and Click “OK”



# How to Use SOP (Video Form)

① Based on the picture form, Click “OPR Video”

The screenshot displays the software interface for the Multifunctional Morphological Analyzer AI-100Vet. The top bar includes the 'awalife' logo, a barcode icon, the device name, a 'SOP' button, and a timestamp '24-05-11 09:22'. Below this is a 'Test management' section with a 'Switch' button, a timer '02:00', and buttons for 'Start', 'Add', 'Edit', 'Delete', and 'Remove'. The main content area is titled 'Blood Operation Process' and features a four-step diagram: 1. Mixing the blood sample in a purple anticoagulant tube. 2. Drawing 10µl of blood from the tube. 3. Adding the blood to a staining solution and mixing. 4. Drawing 150µl of the stained sample into a chip. Below the diagram are detailed instructions and a 'Precautions for Operation' section with four numbered points. A red box highlights the 'OPR Video' button in the bottom right corner of the SOP content area. The bottom navigation bar contains icons for 'Test', 'Results', 'Report', 'Testing', 'Settings', and 'Exit'. The footer text reads 'Shenzhen AnLv Technology Co., LTD' and 'Software version:v2.0.7.05'.

awalife 安路 Multifunctional Morphological Analyzer AI-100Vet SOP 24-05-11 09:22

Test management 02:00 Start Add Edit Delete Remove

No. S Switch

### Blood Operation Process

“Before starting the test, the blood sample needs to be thoroughly mixed and confirmed to be free of obvious blood clots.”

Draw 10µl of blood  
Confirm if the volume of blood is at the 10µl scale mark  
Scrape off the excess blood from the outer wall of the blood collection tube opening

Add the blood sample to the blood staining solution Gently invert up and down Mix the blood sample and the staining solution thoroughly

After mixing, immediately draw 150µl of the stained sample  
Rapidly inject into the chip channel in one go  
Then proceed with machine testing

**Precautions for Operation:**

1. Before starting the test, please **check for any obvious blood clots** in the anticoagulant tube, and ensure that the blood is fully mixed with the anticoagulant.
2. When adding the blood sample to the staining solution, it is sufficient for the tip of the pipette to be slightly immersed in the solution. After expelling the blood sample, gently tap 5-10 times before mixing.
3. When adding the sample to the chip, please pay attention to adding it **quickly in one go** to avoid air entering the chip and forming bubbles that could affect testing and results.
4. If the test environment temperature is **below 16°C**, it is necessary to place the chip on the heating plate for preheating 2 minutes in advance to prevent the low temperature from affecting the test results.

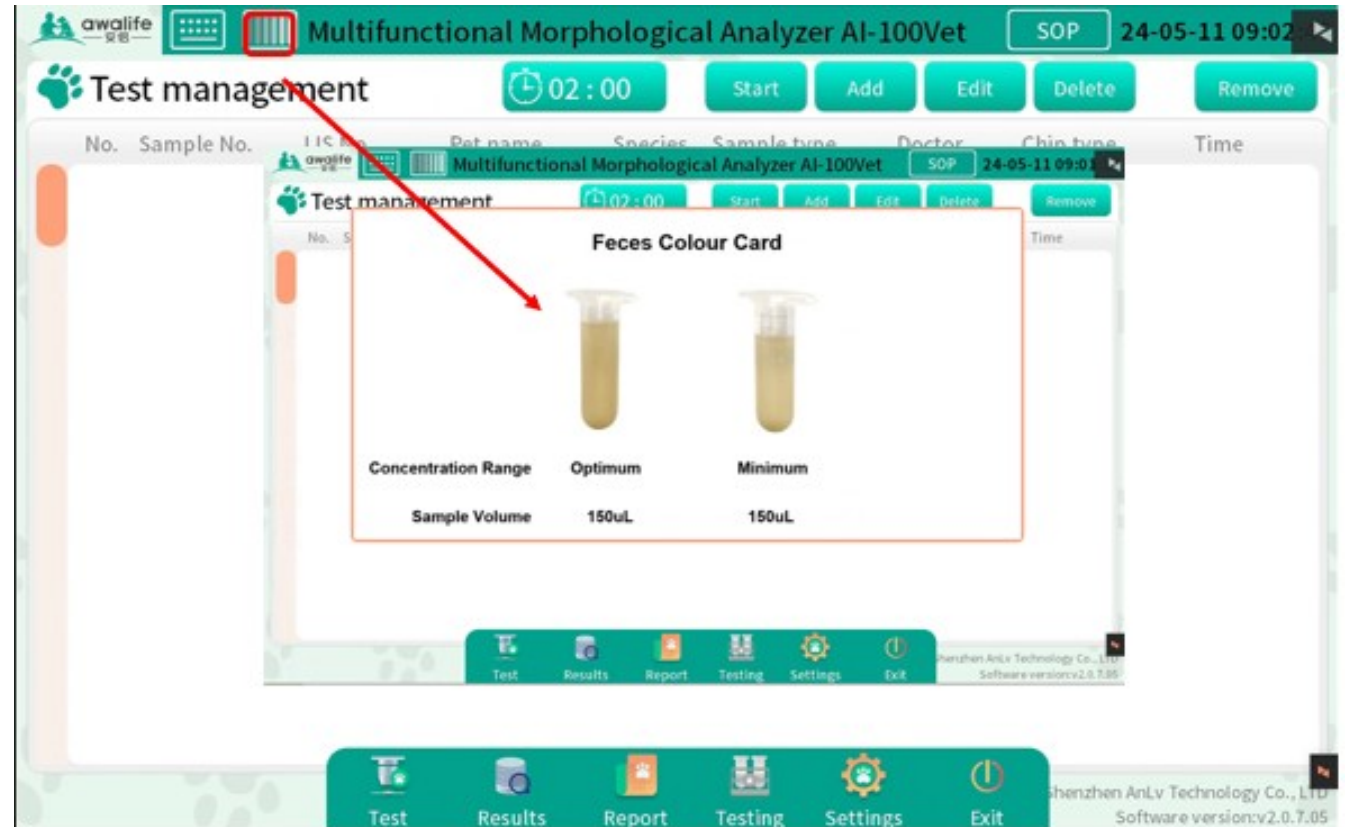
OPR Video

Test Results Report Testing Settings Exit

Shenzhen AnLv Technology Co., LTD  
Software version:v2.0.7.05

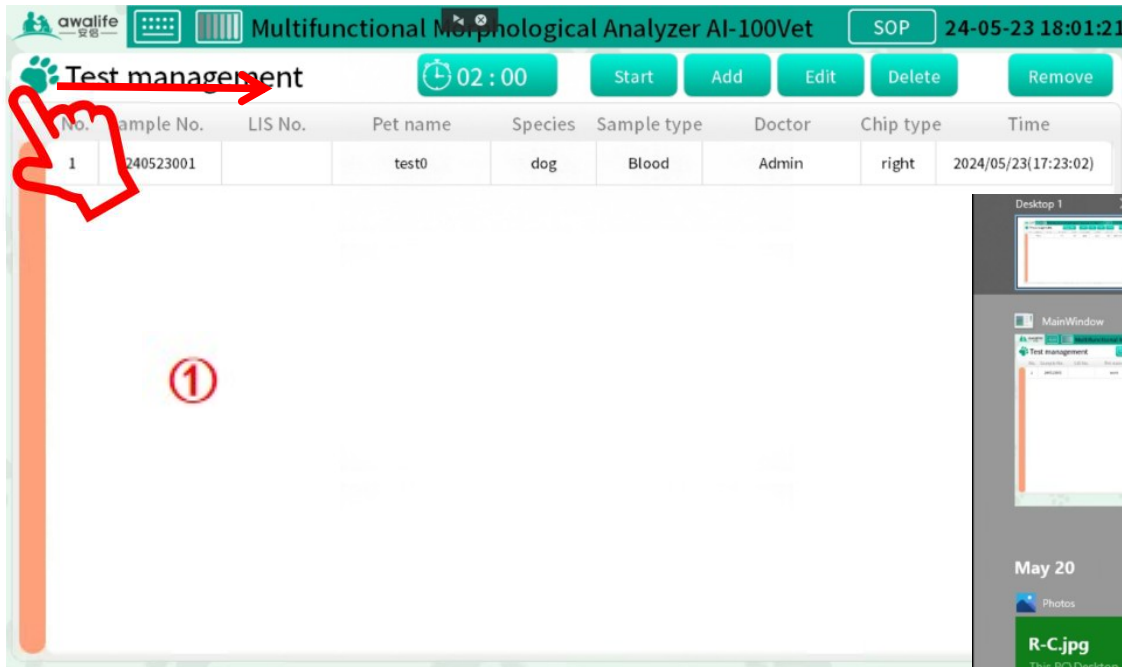
# Turbidity Card for Feces Test

- ① Click on the 2nd icon in the upper left corner of the main interface.
- ② Compare the sample with the card, check the turbidity



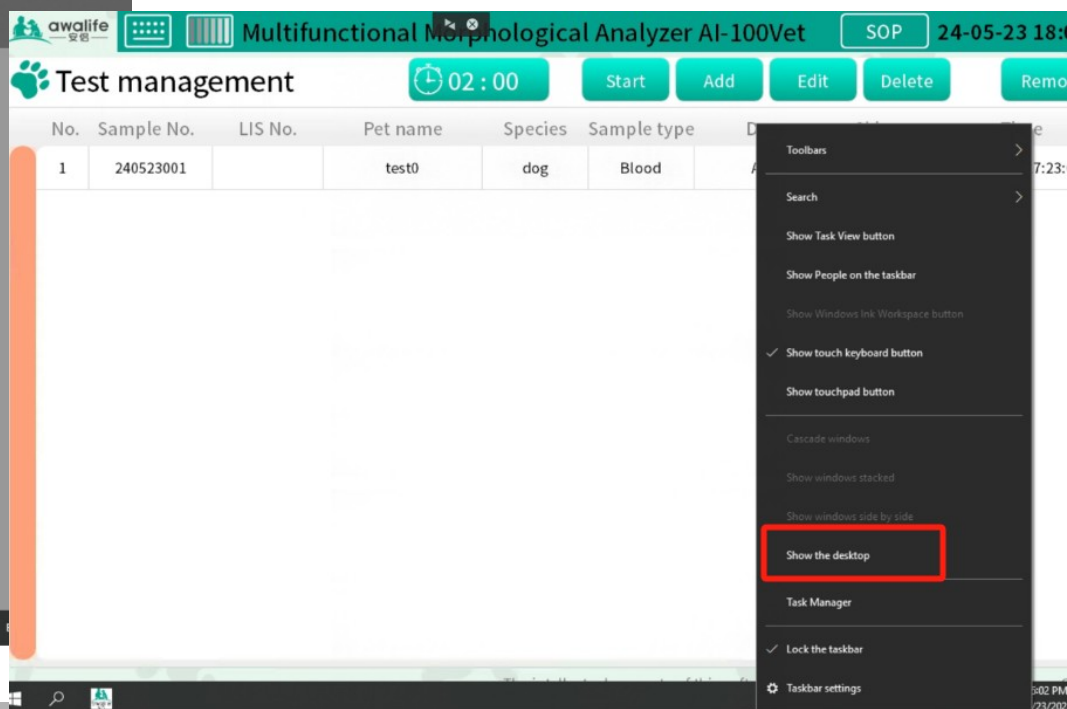
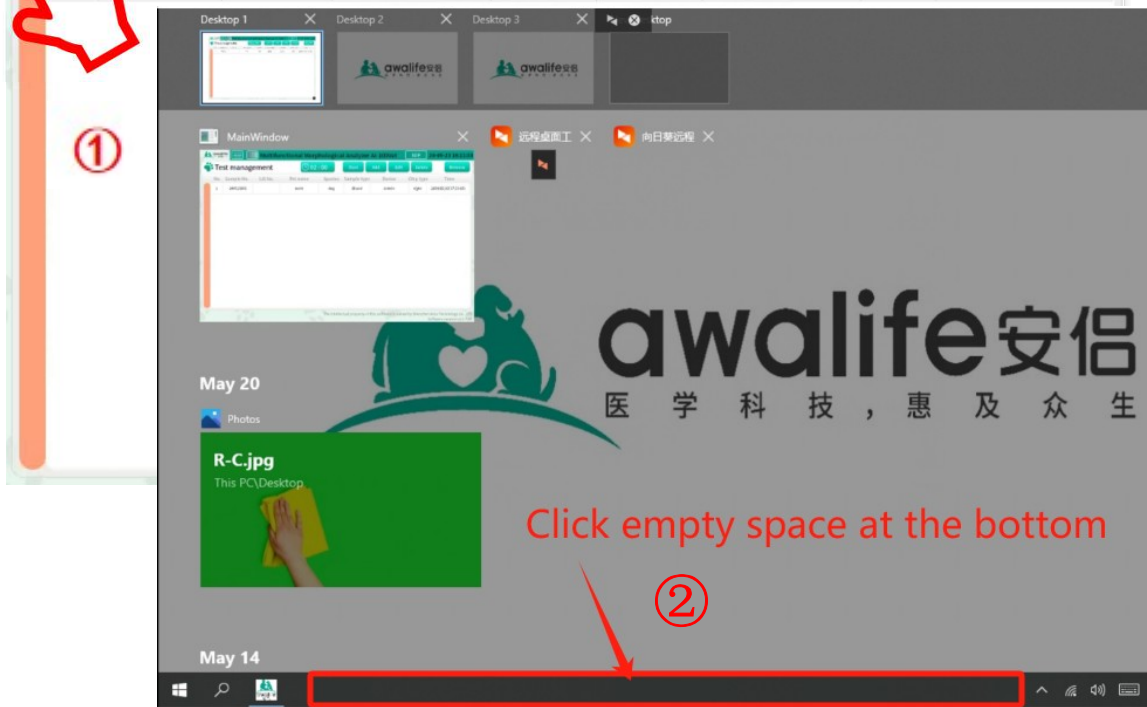


**Back to Desktop**



## 01 Method 1

- ① Use your finger to swipe from left
- ② Then click on the bottom rightmost
- ③ The desktop will appear

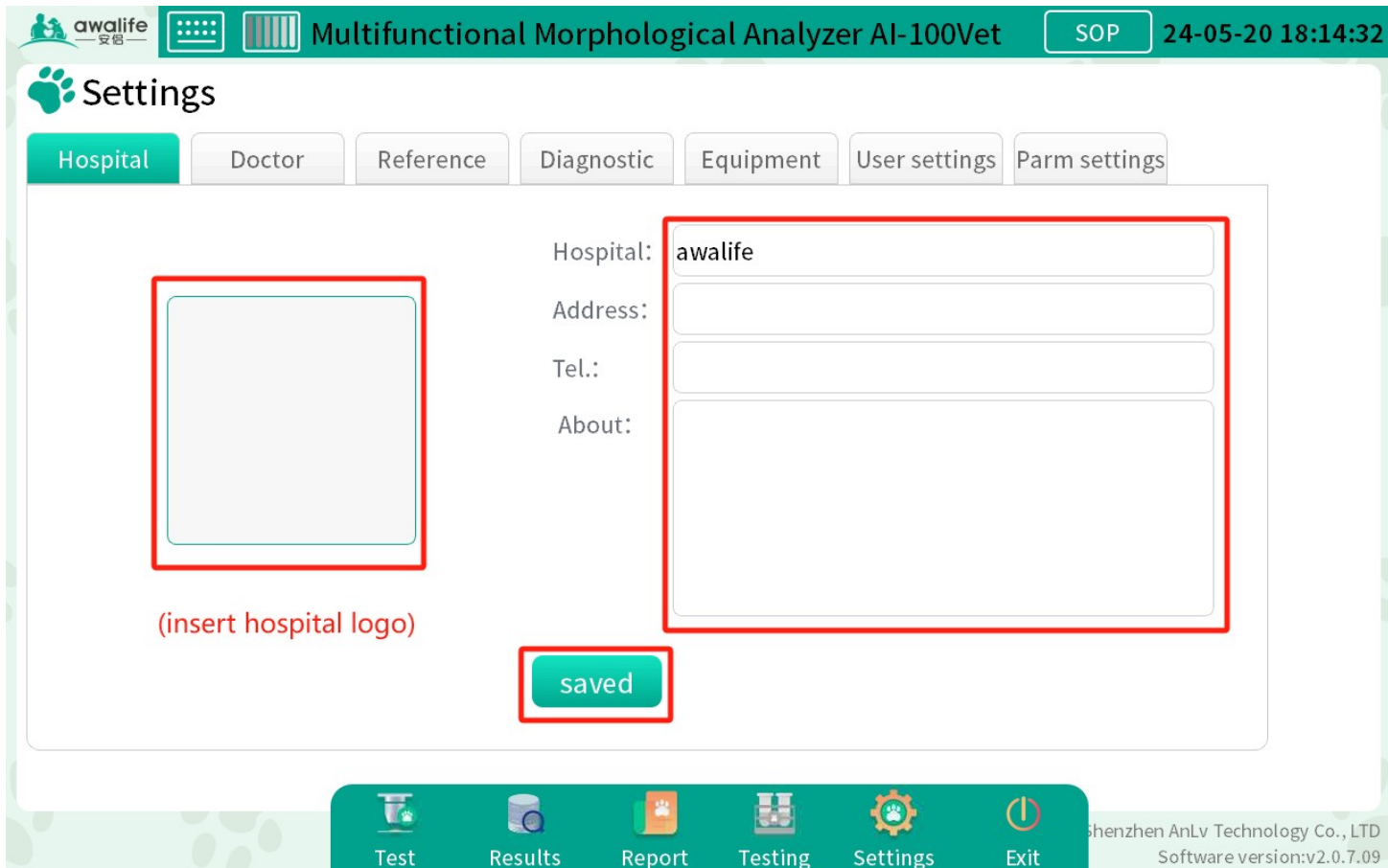


## 02 Method 2

- ① Use your finger to swipe from left
- ② Click random empty space on the bottom
- ③ Then right click "show the desktop"



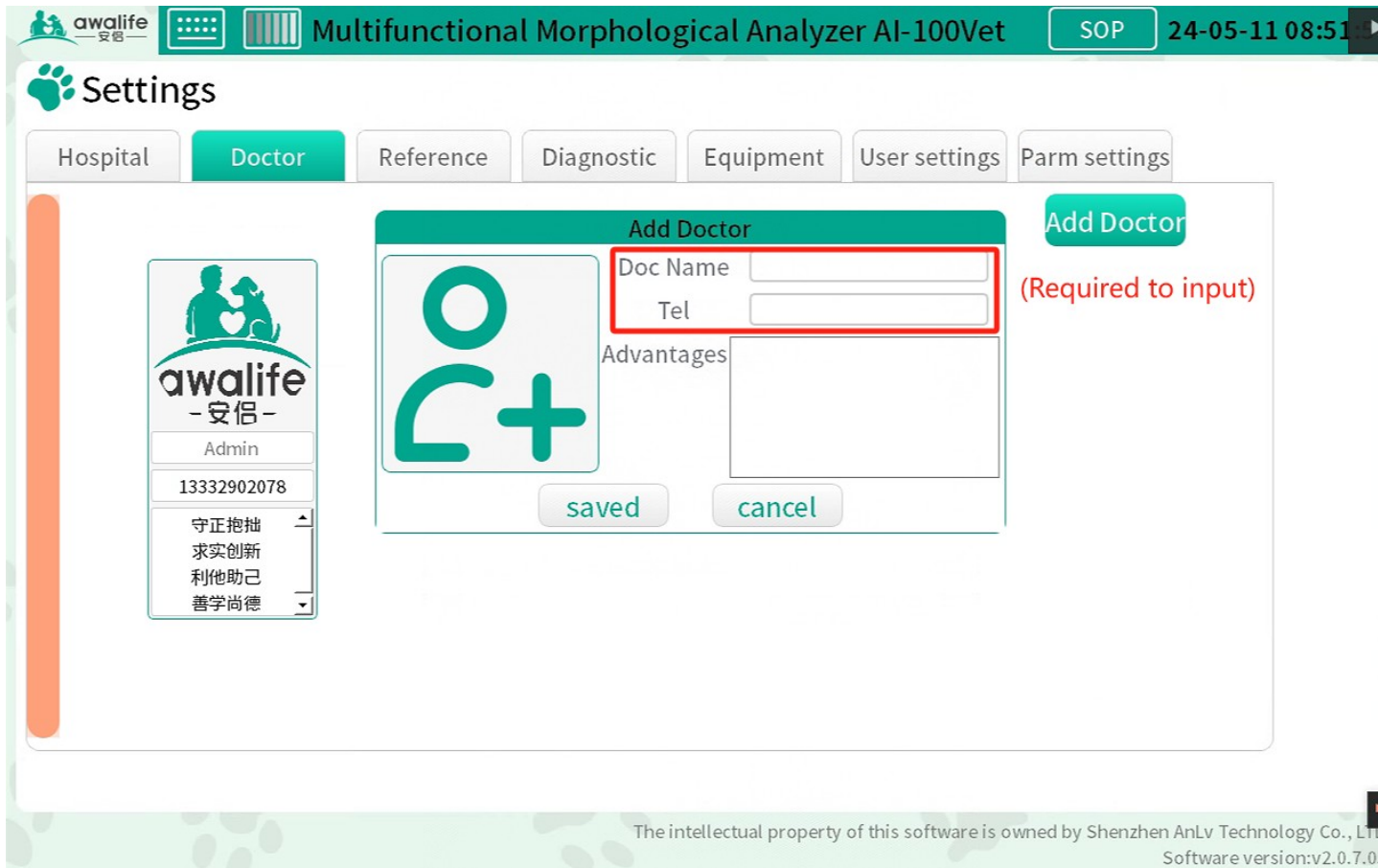
# Settings



01

## Input Hospital Info

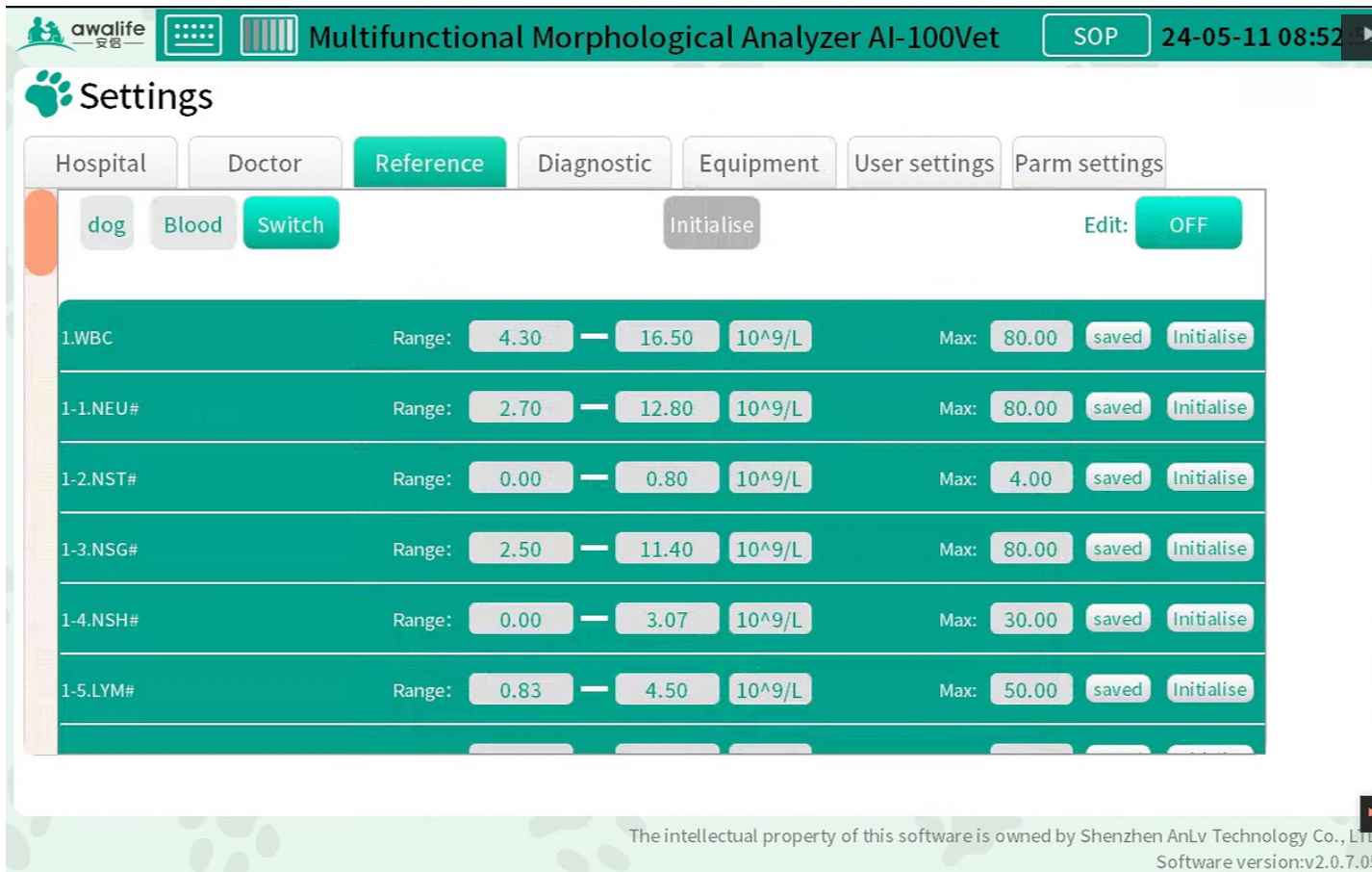
Pls insert hospital logo, fill in hospital detailed info and click “saved”



02

## Input Doctor Info

Fill in Doctor's name and Tel (mandatory)



03

## Reference

The reference edit function is default off

awalife 安信 Multifunctional Morphological Analyzer AI-100Vet SOP 24-05-11 08:53

### Settings

Hospital Doctor Reference **Diagnostic** Equipment User settings Parm settings

dog Blood Add Initialise Edit: OFF

WBC>16.50	< >	Diagnostic	Delete	Class1	ON
WBC<4.30	< >	Diagnostic	Delete	Class1	ON
NEU#>12.80	< >	Diagnostic	Delete	Class3	ON
NEU#<2.70	< >	Diagnostic	Delete	Class3	ON
NST#>0.80	< >	Diagnostic	Delete	Class3	ON
NSG#>11.4	< >	Diagnostic	Delete	Class3	ON

The intellectual property of this software is owned by Shenzhen AnLv Technology Co., LTD  
Software version:v2.0.7.05

04

## Diagnostic Prompts

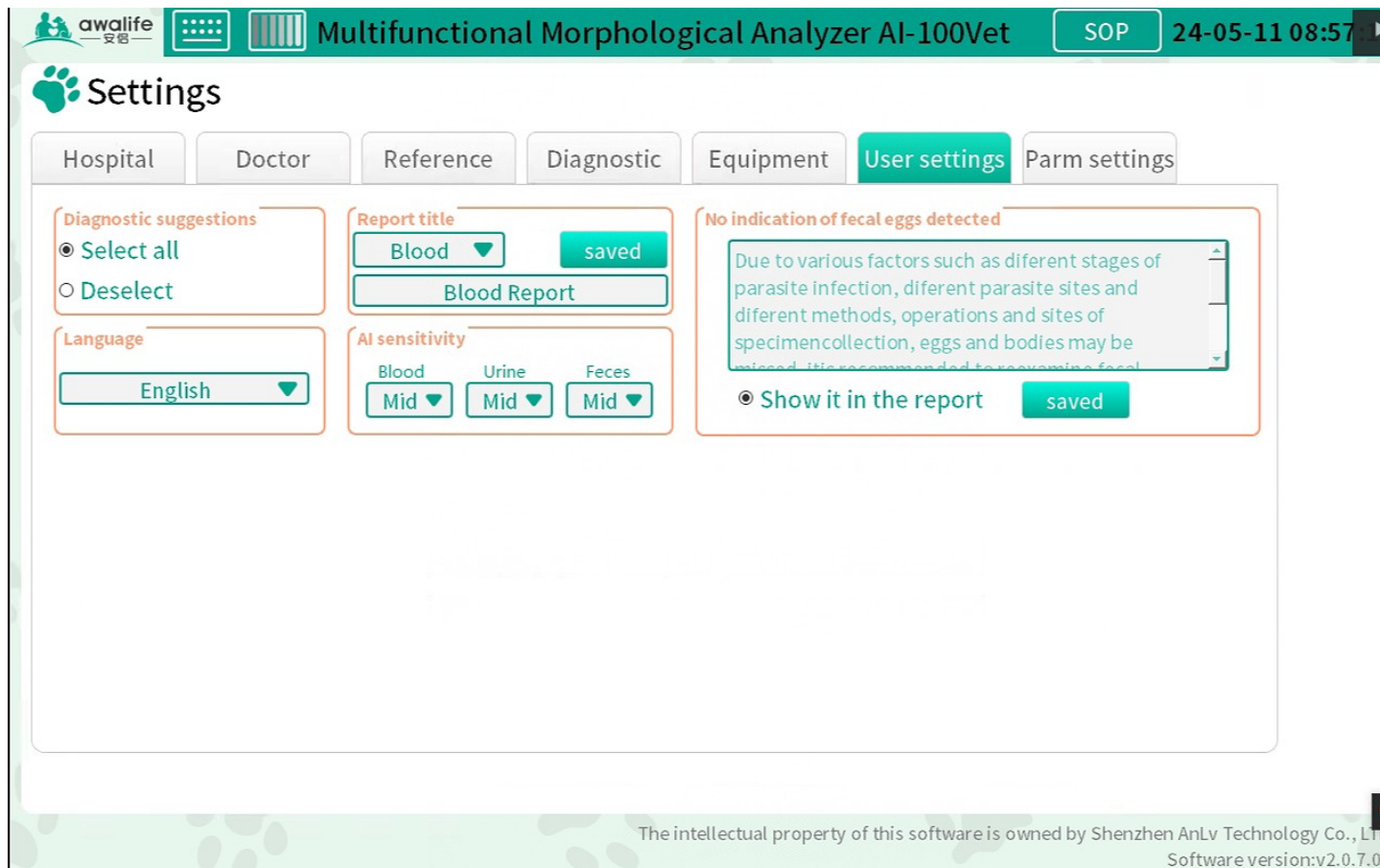
Class1 ~Class 3 Diagnostifc prompts



05

## Equipment Information

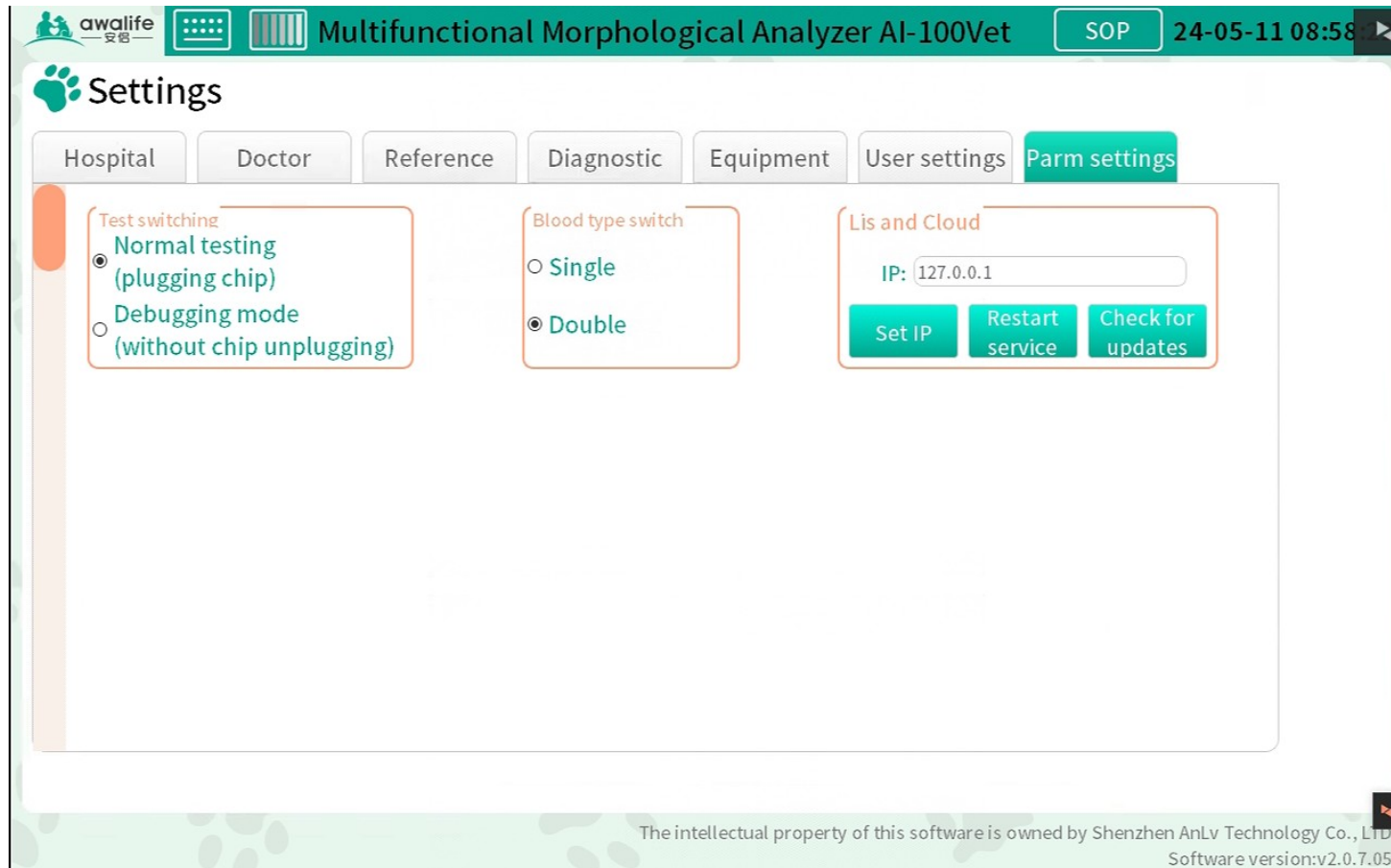
Serial Number (S/N) can be founded here



06

## User Settings

- ✓ Diagnostic suggestions: Select all
- ✓ Customize report title
- ✓ Switch language
- ✓ AI sentivity keeps as middle level
- ✓ No Indication of fecal eggs detected



07

## Parameter Settings

Choose Double for the “Blood type switch”

The background features several overlapping, semi-transparent green geometric shapes. These shapes are primarily trapezoidal and parallelogram-like, arranged in a way that creates a sense of depth and movement. The colors range from a light, pale green to a vibrant, saturated teal. The shapes are positioned in the upper right and lower left corners, framing the central text.

# **Test Management**

# Add Sample Info

- ① Click "Add" button
- ② Enter Pet Name (Mandatory) and Doctor (Mandatory)
- ③ Select Sample Type: blood/urine/feces
- ④ Select Species
- ⑤ Select Chip type: Single/left/right
- ⑥ Save: Review the entered information and click the "Save" button to finalize the sample adding process.

The screenshot displays the software interface for the Multifunctional Morphological Analyzer AI-100Vet. The top section shows the 'Test management' header with a table of test records. The bottom section shows the 'Add Sample Info' form. The form includes fields for Sample No., LIS No., Pet Name, Breed, Gender, Weight, Age, and Doctor. There are also buttons for selecting Sample Type (Blood, Urine, Feces, Ascites), Chip type (Single, left, right), and Species (Mammals, Reptiles, Avians). A 'Save' button is at the bottom left of the form. Red circles and boxes highlight the 'Add' button, the 'Pet Name' and 'Doctor' fields, the 'Blood' button, the 'Mammals' species button, the 'left' chip type button, and the 'Save' button.

# Start Test

- ① Select a Previously added Sample.
- ② Click the "Start" to begin the test.
- ③ Await sample bin pop up automatically.
- ④ Verify that the displayed test information matches the selected sample.
- ⑤ Insert Chip: Insert the corresponding sample chip into the designated slot within the bin.
- ⑥ Testing Commencement: The instrument will automatically begin analyzing the sample upon chip insertion.

The image displays three sequential screenshots of the Multifunctional Morphological Analyzer AI-100Vet software interface, illustrating the steps to start a test.

**Screenshot 1 (Top):** Shows the 'Test management' screen. A table lists test samples. The first row is highlighted with a red box, and a red circle '1' is placed over the 'LIS No.' field (240522016). A red box highlights the 'Start' button in the top right corner, with a red circle '2' next to it. The interface includes a timer showing '02:00' and buttons for 'Add', 'Edit', 'Delete', and 'Remove'.

No.	Sample No.	LIS No.	Pet name	Species	Sample type	Doctor	Chip type	Time
1	240522016	240522016	1	dog	Blood	Administrador	left	2024/05/22(19:41:58)

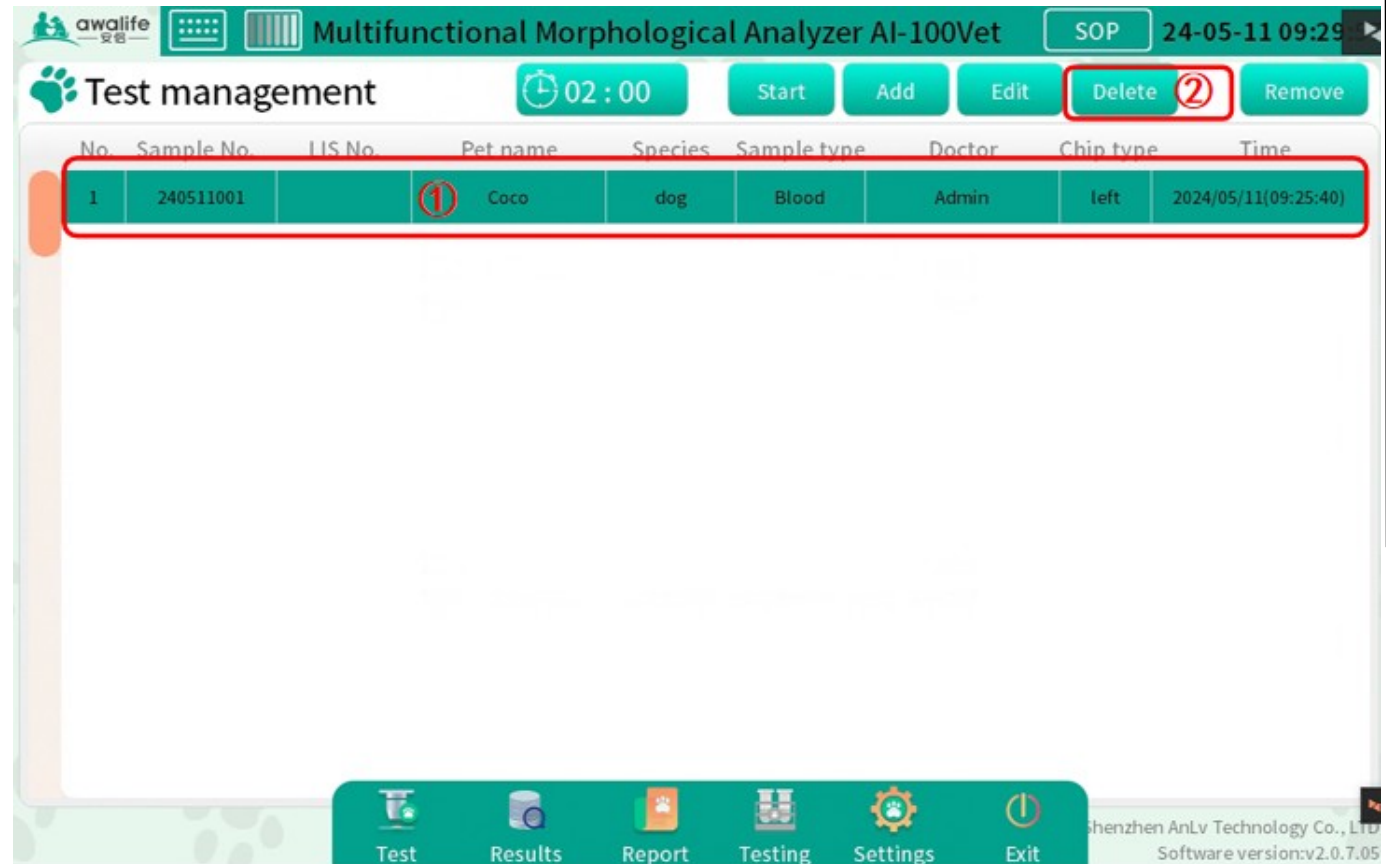
**Screenshot 2 (Middle):** Shows a 'Tips' dialog box with the text: "Start test" In preparation. Please wait for the sample bin to pop up. A red circle '3' is placed over the 'Close' button.

**Screenshot 3 (Bottom):** Shows the 'Tips' dialog box with the text: "Start test" Ready. dog, Blood, 1x(10ul), Left channel. If not, click "Stop" and edit the sample. Insert chip for testing. Absence of chip will initiate auto-retraction in 5 minutes. Press [Stop] for immediate retraction. A red circle '4' is placed over the 'Close' button.

The software interface includes a footer with navigation icons for 'Test', 'Results', 'Report', 'Testing', 'Settings', and 'Exit'. The bottom right corner displays the text: 'Shenzhen AnLv Technology Co., LTD Software version:v2.0.7.09'.

# Delete Sample Record

- ① **Select Sample Record:** Identify the specific sample record that needs to be removed from the system.
- ② **Click the "Delete"**





# **Results Management**

# Report Review

- ① Click “Results”
- ② Select sample test record
- ③ Click “Report review”
- ④ Jump to report display interface

The screenshot displays the software interface for the Multifunctional Morphological Analyzer AI-100Vet. The top bar includes the 'awalife' logo, a barcode icon, the device name 'Multifunctional Morphological Analyzer AI-100Vet', a 'SOP' button, and a timestamp '24-05-11 09:35'. Below this is a 'Results' section with a 'Retest' button and a 'Report review' button (circled in red with a '3'). Other buttons include 'Open File', 'Delete', and a search field for 'Serial No.'. The main area is a table with columns: No., Sample No., LIS No., Pet name, Species, Sample type, Doctor, Chip type, and Time. Row 2 is highlighted in red and contains a circled '2'. At the bottom, a navigation bar has buttons for 'Test', 'Results' (circled in red with a '1'), 'Report', 'Testing', 'Settings', and 'Exit'. The bottom right corner shows 'Shenzhen AnLv Technology Co., LTD' and 'Software version:v2.0.7.05'.

No.	Sample No.	LIS No.	Pet name	Species	Sample type	Doctor	Chip type	Time
1	240120010		N112旧单	犬	尿液	管理员	左通道	2024/01/20(15:59:29)
2	240120011		F311旧单	猫	粪便	管理员	右通道	2024/01/20(16:12:02)
3	240120012		犬旧单	犬	血液	管理员	单通道	2024/01/20(16:28:20)
4	240120013		猫旧单	猫	血液	管理员	单通道	2024/01/20(16:47:19)
5	240122001		107	猫	血液	管理员	左通道	2024/01/22(10:17:34)
6	240122002		107	猫	血液	管理员	右通道	2024/01/22(10:37:45)
7	240122003		n116	犬	尿液	管理员	右通道	2024/01/22(10:58:31)
8	240122005		龙猫	龙猫	血液	管理员	左通道	2024/01/22(11:18:50)
9	240122006		龙猫	龙猫	血液	管理员	右通道	2024/01/22(13:34:43)
10	240122007		雪豹	雪貂	血液	管理员	右通道	2024/01/22(13:45:34)
11	240122009		大鼠	大鼠	血液	管理员	单通道	2024/01/22(13:56:48)
12	240122010	41					右通道	2024/01/22(14:13:59)

# Retest

(The function is to streamline sample entry for repeat tests on the same pet)

- ① Click “Results”
- ② Select sample test record
- ③ Click “Retest”
- ④ Jump to the new sample interface
- ⑤ The original sample information has been automatically brought in

No.	Sample No.	LIS No.	Pet name	Species	Sample type	Doctor	Chip type	Time
1	240120010		N112旧单	犬	尿液	管理员	左通道	2024/01/20(15:59:29)
2	240120011		F311旧单	猫	粪便	管理员	右通道	2024/01/20(16:12:02)
3	240120012		犬旧单	犬	血液	管理员	单通道	2024/01/20(16:28:20)
4	240120013		猫旧单	猫	血液	管理员	单通道	2024/01/20(16:47:19)
5	240122001		107	猫	血液	管理员	左通道	2024/01/22(10:17:34)
6	240122002		107	猫	血液	管理员	右通道	2024/01/22(10:37:45)
7	240122003		n116	犬	尿液	管理员	右通道	2024/01/22(10:58:31)
8	240122005		龙猫	龙猫	血液	管理员	左通道	2024/01/22(11:18:50)
9	240122006		龙猫	龙猫	血液	管理员	右通道	2024/01/22(13:34:43)
10	240122007		雪豹	雪貂	血液	管理员	右通道	2024/01/22(13:45:34)
11	240122009		大鼠	大鼠	血液	管理员	单通道	2024/01/22(13:56:48)
12	240122010						左通道	2024/01/22(14:13:59)

Sample No. 240511002 \*Pet Name F311旧单 Pet Owner

LIS No. Breed Gender  M  F Tel

Weight 0.0 kg Age 0 Yrs 0 M \*Doctor 管理员

Blood Feces  
Urine Ascites

Chip type  Single  left  right  
last used dog

Mammals  dog  cat  Rabbit  chinchilla  Rattus  
 Mus  Cricetinae  Ferret  Guinea Pig  others

Reptiles  
Avians

sample volume  
 1time(10ul)  
 4times(40ul)  
 8times(80ul)

Save Cancel

# Open File

- ① Click “Results”
- ② Select sample test record
- ③ Click “Open File”
- ④ Jump to the report and report image storage folder

The image shows two screenshots of the Multifunctional Morphological Analyzer AI-100Vet software interface. The top screenshot displays the 'Results' table with the following data:

No.	Sample No.	LIS No.	Pet name	Species	Sample type	Doctor	Chip type	Time
4	240120013		猫旧单	猫	血液	管理员	单通道	2024/01/20(16:47:19)
5	240122001		107	猫	血液	管理员	左通道	2024/01/22(10:17:34)
6	240122002		107	猫	血液	管理员	右通道	2024/01/22(10:37:45)
7	240122003		n116	犬	尿液	管理员	右通道	2024/01/22(10:58:31)
8	240122005		龙猫	龙猫				
9	240122006		龙猫	龙猫				
10	240122007		雪豹	雪豹				
11	240122009		大鼠	大鼠				
12	240122010	41269	重复性1	犬				
13	240122011		单通道	犬				
14	240122012			犬				

The bottom screenshot shows a file explorer window titled '有形成分分析仪 AI-100Vet' displaying the contents of a folder named '2024/01/19/11\_04\_14443'. The files listed are:

名称	修改日期	类型	大小
LI_DATA	2024/01/19 13:19	文件夹	-
1374_结果_240119007.pdf	2024/01/19 13:19	PDF 文档	774 KB
1374_结果_240119007.png	2024/01/19 13:19	PNG 图片	2,003 KB

# Delete Test Results Record

- ① Click “Results”
- ② Select sample test record
- ③ Click “Delete”

awalife 安尔 安尔 Multifunctional Morphological Analyzer A3100Vet SOP 24-05-11 09:41

Results Retest Report review Open File Delete Serial No. Q

No.	Sample No.	LIS No.	Pet name	Species	Sample type	Doctor	Chip type	Time
4	240120013		猫旧单	猫	血液	管理员	单通道	2024/01/20(16:47:19)
5	240122001		107	猫	血液	管理员	左通道	2024/01/22(10:17:34)
6	240122002		107	猫	血液	管理员	右通道	2024/01/22(10:37:45)
7	240122003		n116	犬	尿液	管理员	右通道	2024/01/22(10:58:31)
8	240122005		龙猫	龙猫	血液	管理员	左通道	2024/01/22(11:18:50)
9	240122006		龙猫	龙猫	血液	管理员	右通道	2024/01/22(13:34:43)
10	240122007		雪豹	雪貂	血液	管理员	右通道	2024/01/22(13:45:34)
11	240122009		大鼠	大鼠	血液	管理员	单通道	2024/01/22(13:56:48)
12	240122010	41269	重复性1	犬	血液	管理员	左通道	2024/01/22(14:13:59)
13	240122011		单通道	犬	血液	管理员	单通道	2024/01/22(14:47:34)
14	240122012		单通道	犬	血液	管理员	单通道	2024/01/22(15:07:17)
15	240122013		单通道	犬	血液	管理员	单通道	2024/01/22(15:16:41)

Test Results Report Testing Settings Exit

Shenzhen AnLv Technology Co., Ltd. Software version:v2.0.7.05

# Results Sorting

- ① Click “Results”
- ② Click the drop-down arrow at the right of “Serial No.”
- ③ Select sort by Serial No./Sample No./Time
- ④ Select the same type of sorting method again to switch between forward and reverse order.

The screenshot displays the software interface for the Multifunctional Morphological Analyzer AI-100Vet. The top bar includes the 'awalife' logo, a search bar, and the date '24-05-11 09:44'. The main area is titled 'Results' and contains a table with columns: No., Sample No., LIS No., Pet name, Species, Sample type, Doctor, and Time. A dropdown menu is open over the 'Serial No.' column, showing options: 'Serial No.', 'Sample No.', and 'Time'. A red circle highlights the 'Results' button in the bottom navigation bar.

No.	Sample No.	LIS No.	Pet name	Species	Sample type	Doctor	Time
4	240120013		猫旧单	猫	血液	管理员	2024/01/20(16:47:19)
5	240122001		107	猫	血液	管理员	2024/01/22(10:17:34)
6	240122002		107	猫	血液	管理员	右通道 2024/01/22(10:37:45)
7	240122003		n116	犬	尿液	管理员	右通道 2024/01/22(10:58:31)
8	240122005		龙猫	龙猫	血液	管理员	左通道 2024/01/22(11:18:50)
9	240122006		龙猫	龙猫	血液	管理员	右通道 2024/01/22(13:34:43)
10	240122007		雪豹	雪貂	血液	管理员	右通道 2024/01/22(13:45:34)
11	240122009		大鼠	大鼠	血液	管理员	单通道 2024/01/22(13:56:48)
12	240122010	41269	重复性1	犬	血液	管理员	左通道 2024/01/22(14:13:59)
13	240122011		单通道	犬	血液	管理员	单通道 2024/01/22(14:47:34)
14	240122012		单通道	犬	血液	管理员	单通道 2024/01/22(15:07:17)
15	240122012		单通道	犬	血液	管理员	单通道 2024/01/22(15:10:41)

# Search Results

- ① Click “Results”
- ② Click the search box and enter keywords there
- ③ Press Enter or click the search icon
- ④ Show search results

awalife 安尔唯 Multifunctional Morphological Analyzer AI-100Vet SOP 24-05-11 09:47

Results Retest Report review Open File Delete Serial No. 🔍 ②

No.	Sample No.	LIS No.	Pet name	Species	Sample type	Doctor	Chip type	Time
18	240122017		C111	猫	血液	管理员	左通道	2024/01/22(16:27:02)
19	240122018		C111	猫	血液	管理员	右通道	2024/01/22(16:38:32)
20	240122019		C111	猫	血液	管理员	右通道	2024/01/22(16:48:35)
21	240122020		C111大龙	猫	血液	管理员	左通道	2024/01/22(17:01:44)
22	240122021		C111大龙	猫	血液	管理员	右通道	2024/01/22(17:10:50)
23	240122022		C111大龙	猫	血液	管理员	左通道	2024/01/22(17:19:24)
24	240122023		C111大龙	猫	血液	管理员	右通道	2024/01/22(17:32:11)
25	240122024		C111大龙	猫	血液	管理员	左通道	2024/01/22(17:43:24)
26	240122025		C111定量程JIAA	猫	血液	管理员	右通道	2024/01/22(17:51:35)
27	240122026		C111定量程JIAA	猫	血液	管理员	左通道	2024/01/22(17:59:02)
28	240122027		C111定量程JIAA	猫	血液	管理员	右通道	2024/01/22(18:06:18)
29	240122028		C111定量程JIAA	猫	血液	管理员	左通道	2024/01/22(18:13:52)

Test Results Report Testing Settings Exit

Shenzhen AnLv Technology Co., Ltd. Software version:v2.0.7.05



# Report

# Manual Edit (for Urine/Feces Report)

- ① Click “Report”
- ② Click “Edit”
- ③ Selected items
- ④ Enter new results in the number box
- ⑤ Click “OK” to complete parameter modification
- ⑥ Click “Save” : to complete the report modifications

The image displays two screenshots of the Multifunctional Morphological Analyzer AI-100Vet software interface, illustrating the manual edit process for a feces report.

**Top Screenshot:** Shows the main report view for a feces sample. The patient information includes No.: 240511001, Pet name: Coco, Species: dog, Doctor: Admin, Gender: M, Sample: Feces(150ul), Pet age: 0Yrs0M, and Owner: Weight:0.0kg. The report shows detection items for Parasite egg, Intestinal protozoa, and Germ. The item 3-1.Cocci is highlighted with a red box and a circled 3. The 'Edit' button is circled with a red box and a circled 2.

**Bottom Screenshot:** Shows the 'Custom' dialog box for the selected item 3-1.Cocci. The value 847.28 is entered in the input field, which is circled with a red box and a circled 4. The 'OK' button is circled with a red box and a circled 5. The 'Save' button in the top right corner is circled with a red box and a circled 6. The 'Report' button in the bottom navigation bar is circled with a red box and a circled 1.

Detection items	Result/Unit	Result/Unit	Reference	Negative	Positive
<b>1.Parasite egg</b>					
1-1.Ascaris ascaris	0.00	0.00/LPF	0-0		
1-2.Hookworm	0.00	0.00/LPF	0-0		
1-3.Tapeworm	2.00	0.08/LPF	0-0		
1-4.Dipylidium caninum	0.00	0.00/LPF	0-0		
1-5.Spirometra	2.00	0.08/LPF	0-0		
1-6.Aria alata	0.00	0.00/LPF	0-0		
<b>2.Intestinal protozoa.</b>					
2-1.Trichomonas	0.00	0.00/LPF	0-0		
2-2.Giardia lamblia	0.00	0.00/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		
<b>3.Germ</b>					
3-1.Cocci	847.28				

# Picture Review

- ① Click “Report”
- ② Click “Picture review”
- ③ Select gallery category
- ④ Drag progress bar  
browse images
- ⑤ Double click to view  
larger image
- ⑥ Drag to zoom in or out
- ⑦ Click to save the current  
picture
- ⑧ Can save all pictures or  
save selected pictures

The screenshot displays the software interface for the Multifunctional Morphological Analyzer AI-100Vet. The main window shows a list of test results for a sample labeled 'Coco dog Feces'. The 'Picture review' tab is active, showing a grid of microscopic images. The interface includes a top navigation bar with 'Edit', 'Picture review', 'Diagnostic', 'Print', and 'Save' buttons. A table of results is visible on the left, listing various organisms and their counts. The 'Picture review' section has a 'CEL' category selected, and a grid of images numbered 1 through 8. A progress bar is located above the grid. The bottom of the screen shows a larger view of image 5, with a zoom slider and 'Save' and 'Cancel' buttons. Red circles and boxes highlight the steps described in the list: 1. 'Report' button, 2. 'Picture review' tab, 3. 'Micro images' category, 4. Progress bar, 5. Double-click on image 5, 6. Zoom slider, 7. 'Save' button, and 8. 'Save selected images' button.

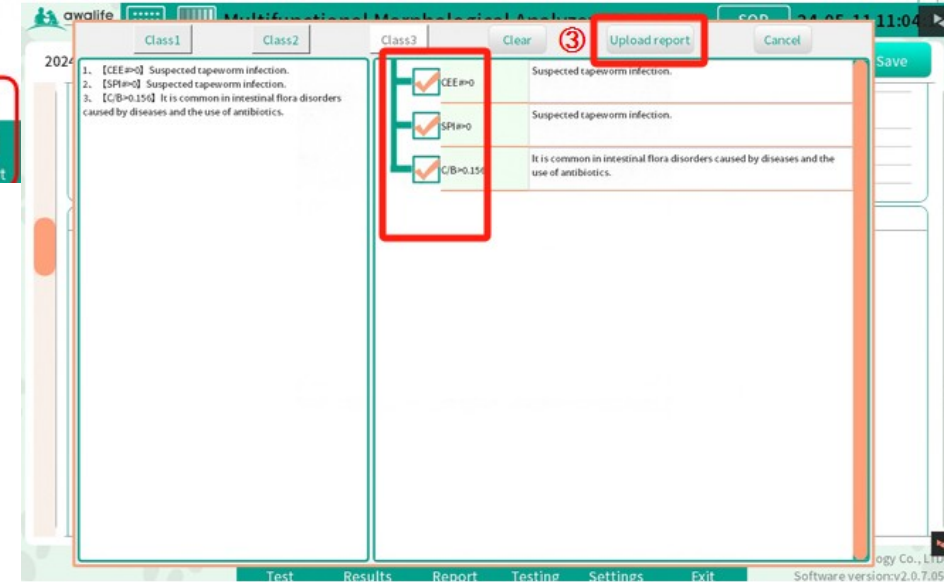
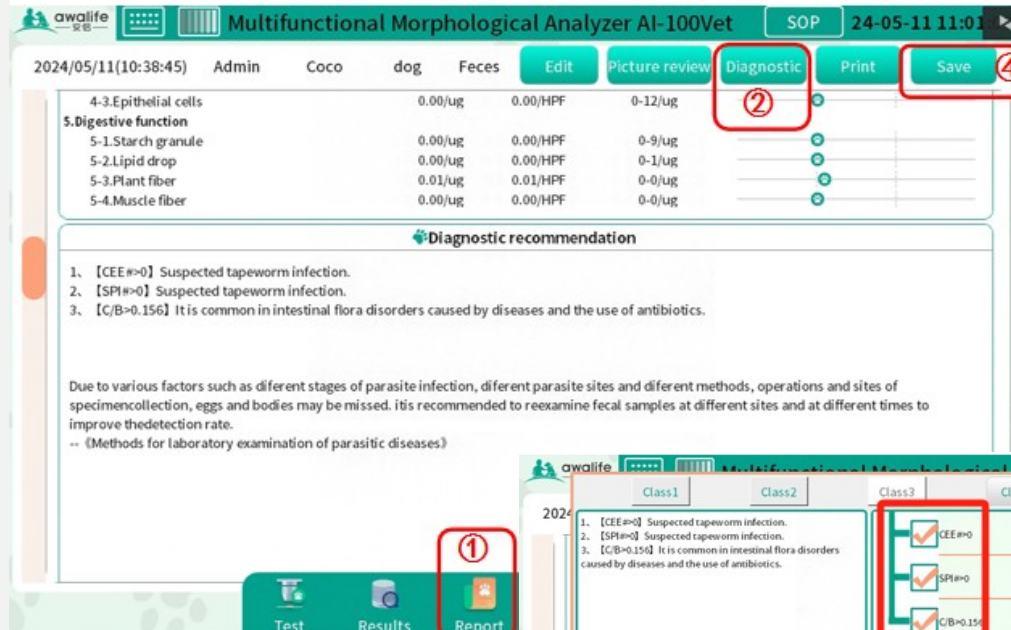
Item	Count	Unit
1-2.Hookworm	0.00	0.00/LPF
1-3.Tapeworm	2.00	0.00/LPF
1-4.Dipylidium caninum	0.00	0.00/LPF
1-5.Spiroplasma	2.00	0.00/LPF
1-6.Alaria alata	0.00	0.00/LPF
2.Intestinal protozoa		
2-1.Trichomonas	0.00	0.00/LPF
2-2.Giardia lamblia	0.00	0.00/LPF
2-3.Isosporium coccidia	0.00	0.00/LPF
2-4.Isosporium coccidia 0	0.00	0.00/LPF
2-5.Isosporium coccidia 1	0.00	0.00/LPF
2-6.Isosporium coccidia 2	0.00	0.00/LPF
3.Germ		
3-1.Cocci	847.28	186.88/HPF
3-2.Rods	1639.88	361.69/HPF
3-3.Brevibacterium	1601.75	353.28/HPF
3-4.Crude bacilli	15.25	3.36/HPF
3-5.Anaeroflum	22.88	5.05/HPF
3-6.Cocci/Rods	0.517	0.517
3-7.Campylobacter	0.00	0.00/HPF
3-8.Bacillus	0.00	0.00/HPF
3-9.Serpentine spirochete	0.00	0.00/HPF
3-10.Helicobacter	0.00	0.00/HPF
3-11.Yeast	0.00	0.00/HPF

# Picture Review

Sample Type	Image Gallery 1	Image Gallery 2	Image Gallery 3	Image Gallery 4	Image Gallery 5
Blood	HGB Images View HGB distribution	RBC Images View RBC/RET/PLT/ETG distribution	WBC Images View WBC distribution	WBC Cropped Image View various types of white blood cells	RBC Cropped Image View various types of white blood cells
Feces	Egg Images View parasite egg/protozoa images	Microbe Images View the distribution of bacteria and cells	Split Images Cropped Images of positive images except egg images		
Urine	Cast Images View cast images	Cell Images View cell images	Germ/lipid droplets images View germ/lipid droplets images	Split Images Cropped Images of positive images	

# Diagnostic Prompts

- ① Click “Report”
- ② Click “Diagnostic”
- ③ Check/remove various diagnostic prompts
- ④ Click “Upload report” to import it into the report form
- ⑤ Click “Save” Report to complete the modification of diagnostic prompts



# Print Report

- ① Click “Report”
- ② Click “Print”
- ③ When the printer is connected, click the print button to print the report directly

The screenshot displays the software interface for the Multifunctional Morphological Analyzer AI-100Vet. The top bar shows the date and time (2024/05/11 10:38:45) and the user (Admin). The main area shows test results for a sample labeled 'Coco dog Feces'. The results are organized into sections: 2-6. Isosporium coccidia 2, 3. Germ, 4. Cells, and 5. Digestive function. The 'Print' button is highlighted with a red circle and the number 2. A 'Report' button is also highlighted with a red circle and the number 1. A PDF viewer window is open in the foreground, showing the printed report with a red circle and the number 3 over the print icon.

Item	Value	Unit	Reference
2-6. Isosporium coccidia 2	0.00	0.00/LPF	0-0
3. Germ			
3-1. Cocci	847.28	/ug	186.88/HPF
3-2. Rods	1639.89	/ug	361.69/HPF
3-3. Brevibacterium	1601.75	/ug	353.28/HPF
3-4. Crude bacilli	15.25	/ug	3.36/HPF
3-5. Anaerofilum	22.88	/ug	5.05/HPF
3-6. Cocci/Rods	0.517		0.517
3-7. Campylobacter	0.00	/HPF	0.00/HPF
3-8. Bacillus	0.00	/ug	0.00/HPF
3-9. Serpentine spirochete	0.00	/ug	0.00/HPF
3-10. Helicobacter	0.00	/ug	0.00/HPF
3-11. Yeast	0.89	/ug	0.20/HPF
4. Cells			
4-1. RBC	0.00	/ug	0.00/HPF
4-2. WBC	0.00	/ug	0.00/HPF
4-3. Epithelial cells	0.00	/ug	0.00/HPF
5. Digestive function			
5-1. Starch granule	0.00	/ug	0.00/HPF
5-2. Lipid drop	0.00	/ug	0.00/HPF
5-3. Plant fiber	0.01	/ug	0.01/HPF
5-4. Muscle fiber	0.00	/ug	0.00/HPF

# Save Report

- ① Click “Report”
- ② For operations such as manual editing, changing diagnostic prompts, etc., you need to click Save Report to complete the modification of the report form.

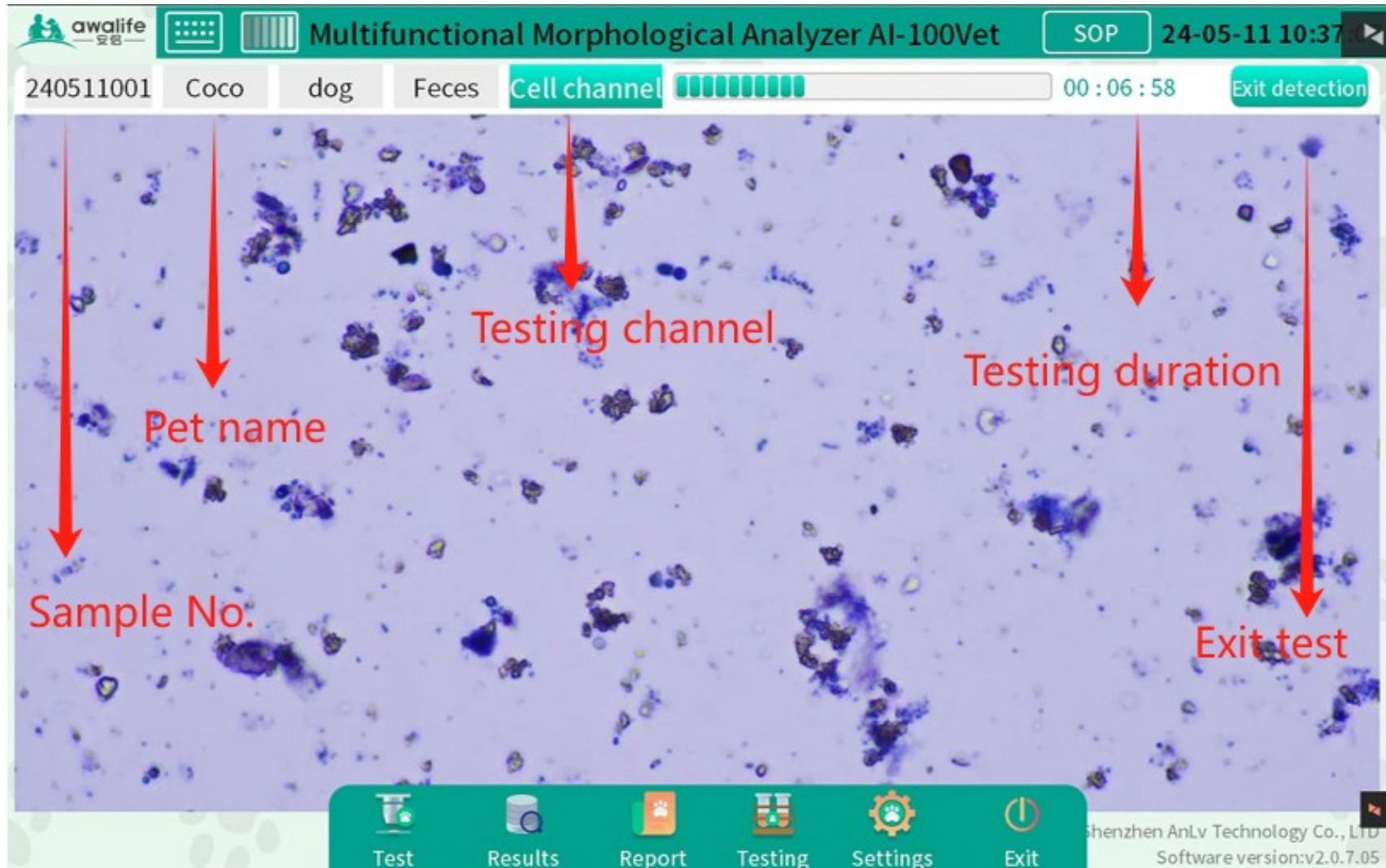
The screenshot displays the software interface for the Multifunctional Morphological Analyzer AI-100Vet. The top navigation bar includes the 'awalife' logo, a menu icon, and the title 'Multifunctional Morphological Analyzer AI-100Vet'. The user information shows 'SOP' and the date/time '24-05-11 11:10'. Below this, the patient information is '2024/05/11(10:38:45) Admin Coco dog Feces'. A row of buttons includes 'Edit', 'Picture review', 'Diagnostic', 'Print', and 'Save'. The 'Save' button is circled in red with a '2' inside. The main report area shows a table of results for various categories: 2-6.Isosporium coccidia 2, 3.Germ (with sub-items 3-1 to 3-11), 4.Cells (with sub-items 4-1 to 4-3), and 5.Digestive function (with sub-items 5-1 to 5-4). A 'Tips' dialog box is overlaid on the report, stating 'The report is being saved. Please wait a few seconds. "Perform the operation after the window is closed."' with a 'Close' button. At the bottom, a navigation bar contains icons for 'Test', 'Results', 'Report', 'Testing', 'Settings', and 'Exit'. The 'Report' icon is circled in red with a '1' inside. The footer text reads 'Shenzhen AnLv Technology Co., Ltd' and 'Software version:v2.0.7.05'.

Item	Value 1	Value 2	Value 3	Unit
2-6.Isosporium coccidia 2	0.00	0.00/LPF	0-0	
<b>3.Germ</b>				
3-1.Cocci	847.28/ug	186.88/HPF	145-729/ug	
3-2.Rods	1629.89/ug	261.69/HPF	510.12904/ug	
3-3.Brevibacteri				
3-4.Crude bacill				
3-5.Anaerofilum				
3-6.Cocci/Rods				
3-7.Campylobac				
3-8.Bacillus				
3-9.Serpentine s				
3-10.Helicobact				
3-11.Yeast				
<b>4.Cells</b>				
4-1.RBC	0.00/ug	0.00/HPF	0-5/ug	
4-2.WBC	0.00/ug	0.00/HPF	0-0/ug	
4-3.Epithelial cells	0.00/ug	0.00/HPF	0-12/ug	
<b>5.Digestive function</b>				
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	0.01/ug	0.01/HPF	0-0/ug	
5-4.Muscle fiber	0.00/ug	0.00/HPF	0-0/ug	

The image features a white background with decorative green geometric shapes. On the left, a series of overlapping, semi-transparent green trapezoidal shapes are stacked vertically, creating a sense of depth and movement. On the right, a similar set of overlapping green trapezoidal shapes is positioned horizontally, also creating a sense of depth. The word "Testing" is centered in the middle of the page in a bold, black, sans-serif font.

# Testing

# Testing Interface



# Testing Interface

- ① Click “Testing”
- ② Click “exit detection” to exit the current test state



# Sample Operation Process

The background features several overlapping, semi-transparent green geometric shapes. These shapes are primarily trapezoidal and parallelogram-like, with some having rounded corners. They are arranged in a way that creates a sense of depth and movement, with some shapes appearing to be layered on top of others. The colors range from a light, pale green to a vibrant, saturated teal. The overall composition is clean and modern, typical of a professional presentation or report cover.

# **Blood Test**

## Anemic Samples

- ① For anemic samples with pale mucous membranes and significantly thin blood consistency, use 40  $\mu\text{l}$  for sample addition and **select "40  $\mu\text{l}$ "** from the **sample volume** options.
- ② For extremely anemic samples with watermelon juice-like appearance, use 80  $\mu\text{l}$  for sample addition and **select "80  $\mu\text{l}$ "** from the **sample volume** options.

awalife 安尔福 Multifunctional Morphological Analyzer AI-100Vet SOP 24-05-11 08:59

Test management 02:00 Start Add Edit Delete Remove

Sample No. 240511001 Pet Name Coco Pet Owner

LIS No. Breed Gender  M  F Tel

Weight 0.0 kg Age 0 Yrs 0 M \*Doctor Select doctor

Blood Feces  
Urine Ascites

Chip type  Single  left  right

last used

sample volume

one(10ul)  
 four(40ul)  
 eight(80ul)

Mammals dog cat Rabbit chinchilla Rattus  
Mus Cricetinae Ferret Guinea Pig others

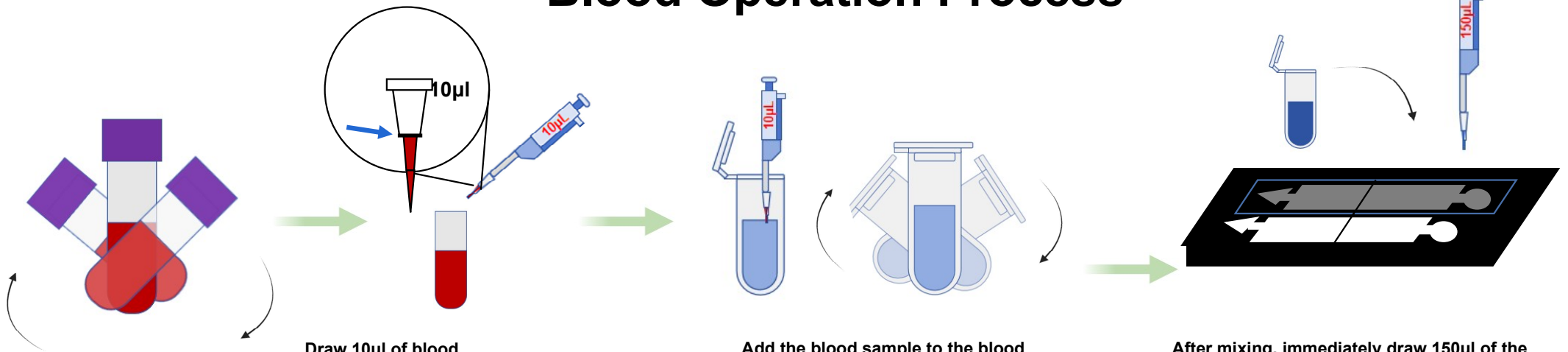
Reptiles  
Avians

Save Cancel

Test Results Report Testing Settings Exit

Shenzhen AnLv Technology Co., Ltd  
Software version:v2.0.7.05

# Blood Operation Process



"Before starting the test, the blood sample needs to be thoroughly mixed and confirmed to be free of obvious blood clots."

**Draw 10µl of blood**  
Confirm if the volume of blood is at the 10µl scale mark  
Scrape off the excess blood from the outer wall of the blood collection tube opening

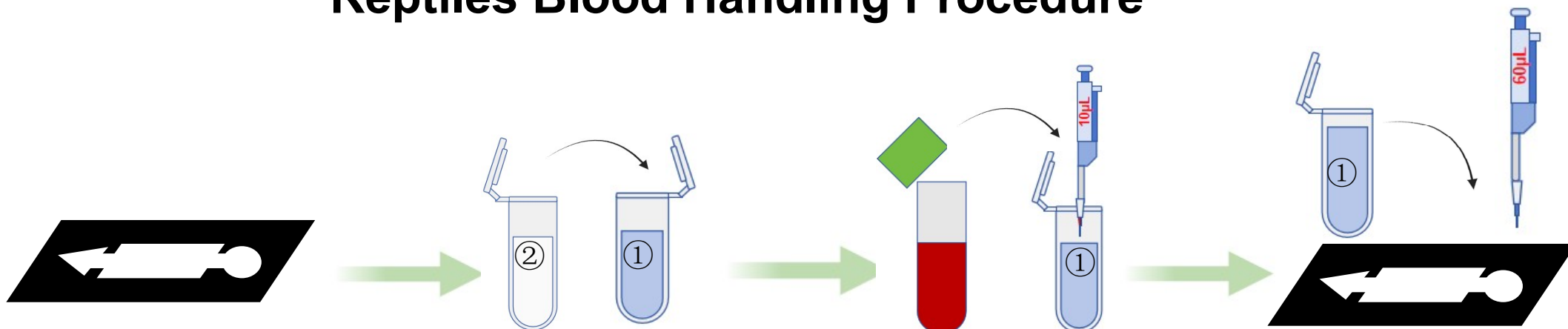
**Add the blood sample to the blood staining solution** Gently invert up and down Mix the blood sample and the staining solution thoroughly

**After mixing, immediately draw 150µl of the stained sample**  
Rapidly inject into the chip channel in one go  
Then proceed with machine testing

## Precautions for Operation:

1. Before starting the test, please **check for any obvious blood clots** in the anticoagulant tube, and ensure that the blood is fully mixed with the anticoagulant.
2. When adding the blood sample to the staining solution, it is sufficient for the tip of the pipette to be slightly immersed in the solution. After expelling the blood sample, gently tap 5-10 times before mixing.
3. When adding the sample to the chip, please pay attention to adding it **quickly in one go** to avoid air entering the chip and forming bubbles that could affect testing and results.
4. If the test environment temperature is **below 16°C**, it is necessary to place the chip on the heating plate for preheating 2 minutes in advance to prevent the low temperature from affecting the test results.

# Reptiles Blood Handling Procedure



"Place the chip on the heating plate for preheating."

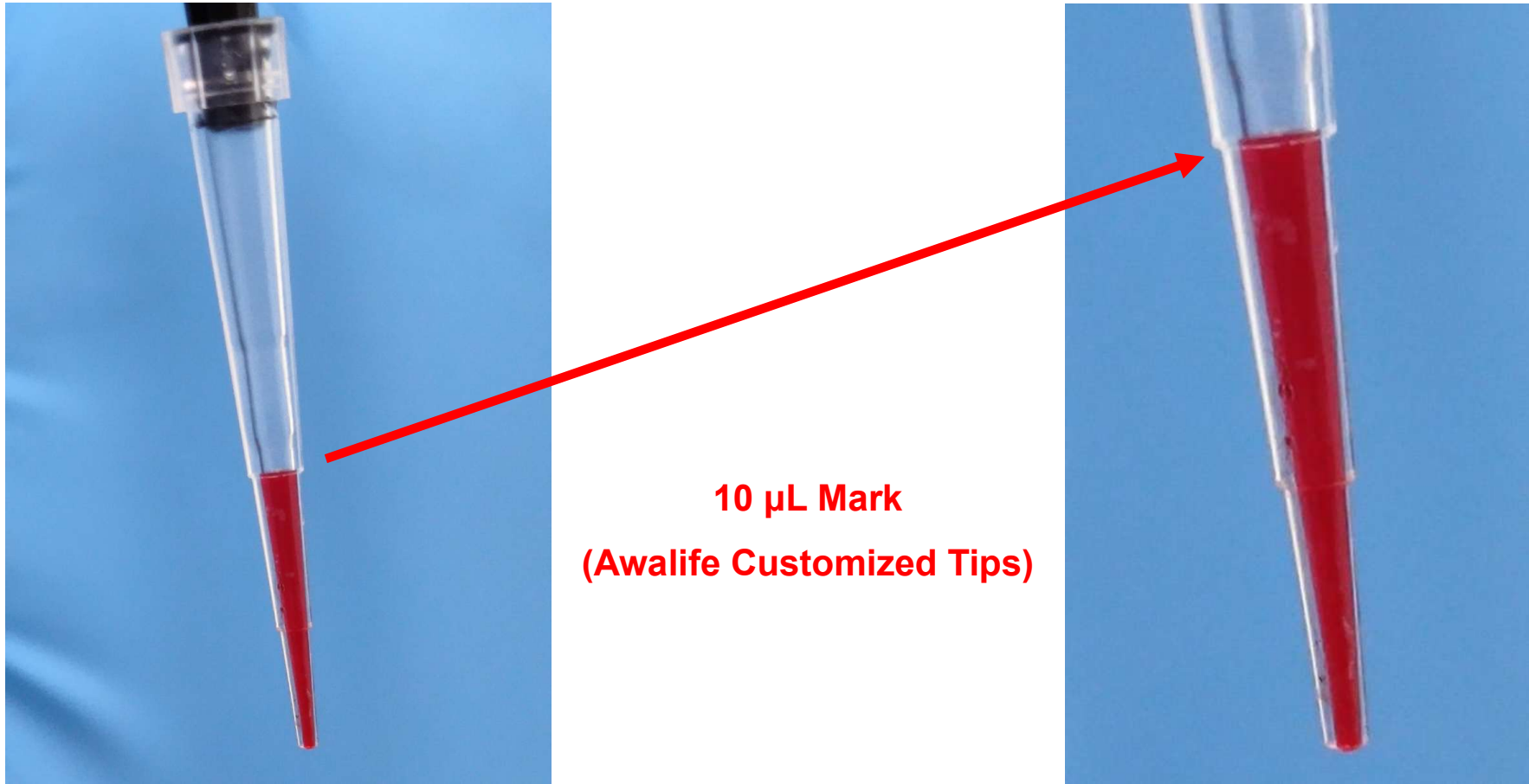
"Add all the liquid from reagent ② into reagent ① and mix well by inverting."

"Draw up 10µl of lithium heparin whole blood and add it to reagent ①. Mix well by inverting."

"Draw up 60µl of the sample and add it to the chip. Proceed with the machine testing."

## Precautions for Operation:

1. Before starting the test, please check for any obvious blood clots in the anticoagulant tube, and ensure that the blood is fully mixed with the anticoagulant.
2. When drawing blood samples, you need to draw vertically from the liquid surface. After drawing, gently scrape off the excess blood hanging on the outer wall of the needle tip on the outside of the blood collection tube.
3. Please be sure to use a heating plate if the room temperature is less than 16°
4. When adding the sample to the chip, please pay attention to add it steadily to avoid air entering the chip and forming bubbles that could affect the testing and results.



**10 µL Mark  
(Awalife Customized Tips)**

## **Blood Sample Addition - Accuracy of 10 µL**

1. Ensure the liquid level is at the 10 µL mark when aspirating.
2. Deviations above or below the mark can affect the results

# Pipette Usage: Differences Between the 2 Stops

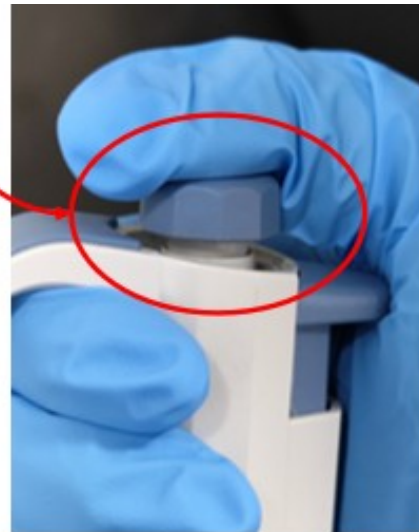
The capacity displayed on the pipette range is the capacity of **the first stop**



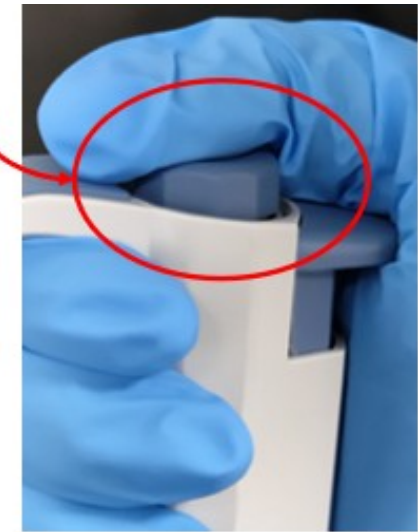
Unpressed state



Press to the **first stop**



Press to the **second stop**



# Pipette Usage Notes



- ✓ **General steps:** Press the first stop to aspirate liquid, press the first stop again to drain liquid, and aspirate and dispense a few times to rinse to rinse the inner wall.
- ✓ **Viscous liquids:** like blood, first rinse the pipette tip's inner wall with the liquid, then re-aspirate the sample. This ensures more accurate blood sample collection.
- ✓ **Avoid using the second stop to aspirate samples!!!**
- ✓ **Exclude Residual Liquid:** Residual liquid on the pipette tip's outer surface is not considered part of the measured volume.

# Heating pad

---

Only used on Blood test chip.

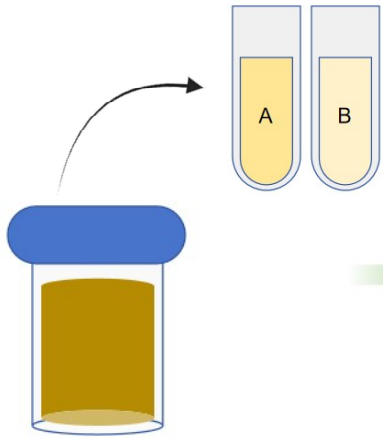


- USB connector, press the button, light on -- heating
- Press the button, light off -- no heating

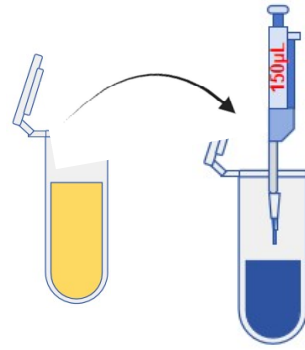
The background features several overlapping, semi-transparent green geometric shapes. These shapes are primarily trapezoidal and parallelogram-like, arranged in a way that creates a sense of depth and movement. The colors range from a light, pale green to a vibrant, saturated teal. The shapes are positioned in the upper right and lower left corners, framing the central text.

# **Feces Test**

# Feces Operating Procedure



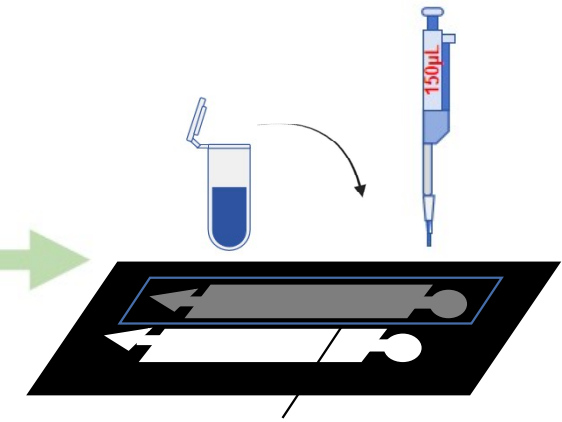
Comparing Colorimetric Cards to Determine Sample Concentration



Add **150 µl** of the sample to the reagent  
Make **8-10** inversions



The test tube is in the open-cover state  
Leave still for **1min**

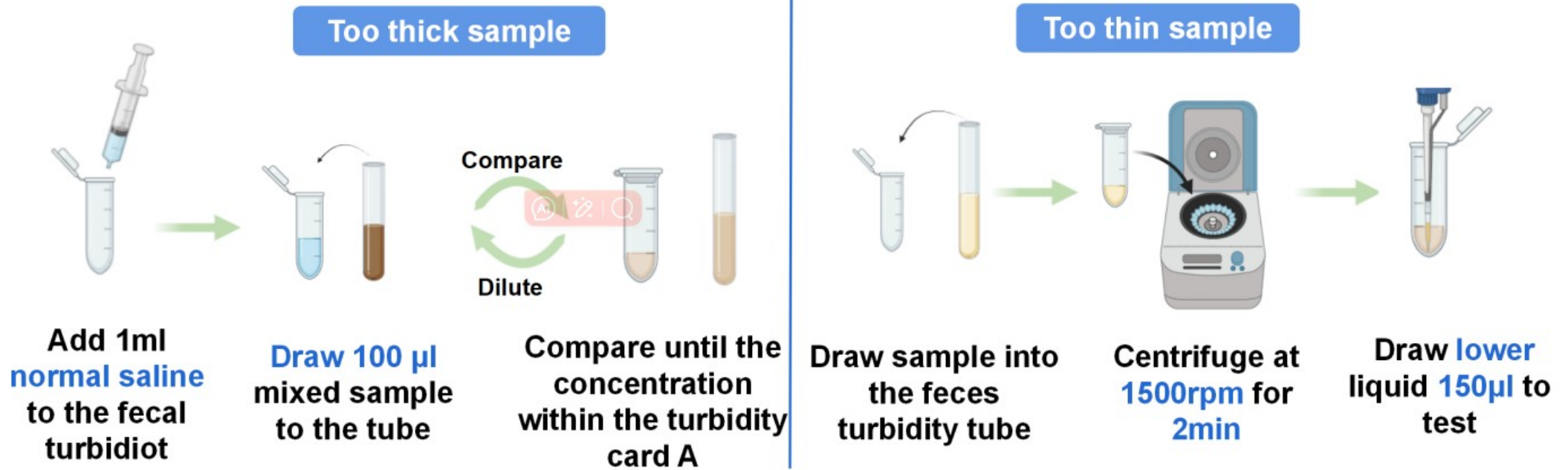


Add **150 µl** mixture from the bottom of the test tube to the chip

## Precautions for Operation:

1. It is recommended to use **intestinal lavage samples or fresh feces** for sampling, the use of anal swabs is not recommended.
2. The **turbidity card A tube** represents the standard sample concentration, which will show the optimum performance of the machine. **Turbidity Card B** represents the lower limit of the concentration that the machine can standardly detect. Samples not within the concentration range of tubes A and B need to be prepared according to the standard concentration sample preparation process.
3. If the test animal has taken physically adsorptive medications such as **kaolin or montmorillonite powder within 36 hours**, it is not recommended to perform machine testing. If instrument testing is needed, the feces should be allowed to stand at standard concentration for 15-20s, and then the solution from the middle or upper segment should be tested. However, the reliability of the results is **not guaranteed**.
4. If the sample's own color is too dark or for other reasons it cannot be compared for turbidity with the turbidity card, it is recommended to use manual microscopic examination for testing. If instrument testing is needed, the sample should be diluted more than 5 times with physiological saline before testing, but the reliability of the results is not guaranteed.
5. For fecal samples with large pieces of intestinal mucosa and mucus, it is **recommended to shake and disperse** the mucus into small pieces before adding the sample to the machine, otherwise it will affect the machine's focusing and the accuracy of the results.

# Preparation procedures for feces sample



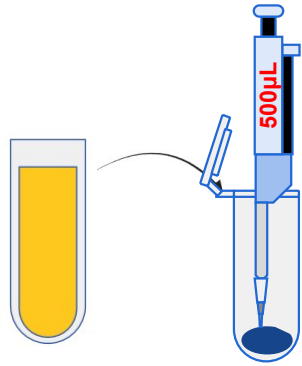
## Precautions for Operation:

1. We recommend using the collection method of **rectal lavage with physiological saline or fresh and uncontaminated feces** directly expelled from animals. We do not recommend using an anal swab for sampling.
2. After the preparation, please test the sample following the test operation process;
3. **Note: Turbidity is a comparison of sample concentration, not color. Place the fecal sample dilution tube on the machine screen for transmittance comparison.**
4. If the overconcentrated sample is not diluted, it may affect the detection rate of protozoa and bacteria;
5. If the concentration of over-dilute sample still cannot reach the sample concentration of the B tube after preparation, it is recommended to conduct artificial microscopy or wait for animals to defecate naturally before collecting fresh feces samples for computer detection. If the sample is tested directly tested after preparation, there will be a risk of miss due to the small formation components of various types

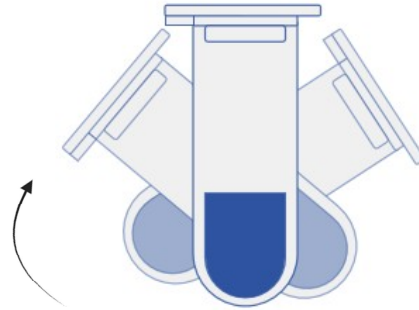
The background features several overlapping, semi-transparent green geometric shapes, primarily parallelograms and trapezoids, arranged in a layered, abstract pattern. The colors range from light mint green to a vibrant teal. The shapes are positioned in the top-right and bottom-left corners, framing the central text.

# **Urine Sediments Test**

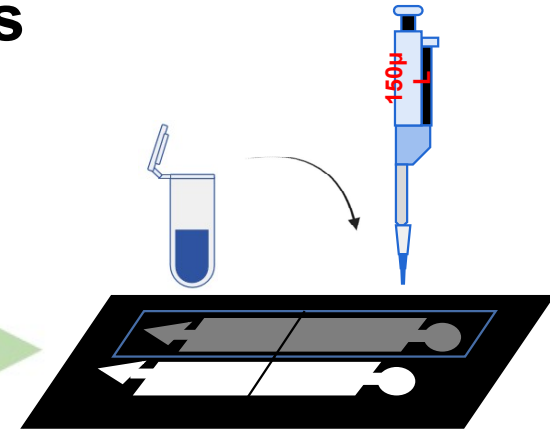
# Urine Preparation Procedures



Add **500 µl** lower urine into the reagent



Mix urine and stain thoroughly  
Until there is **no obvious stain sediment**



Add **150 µl** bottom sediment sample to the chip

## Precautions for operation:

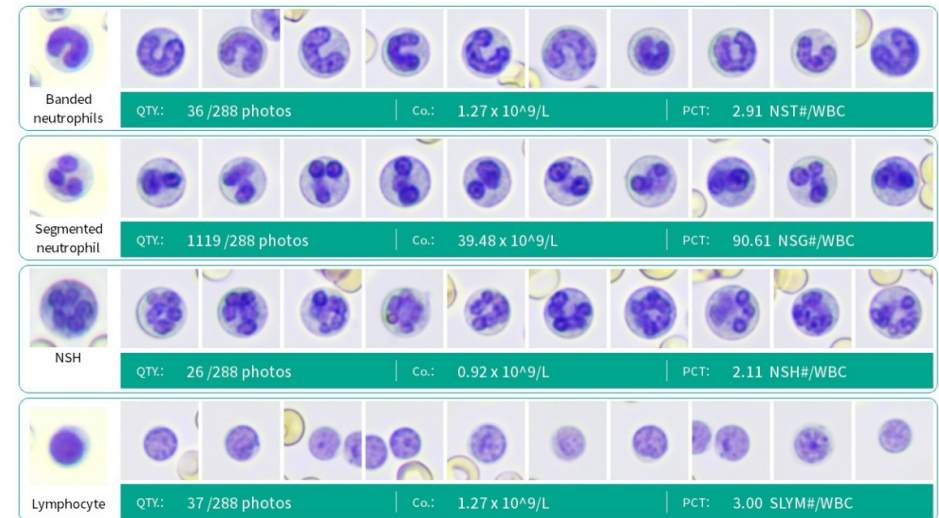
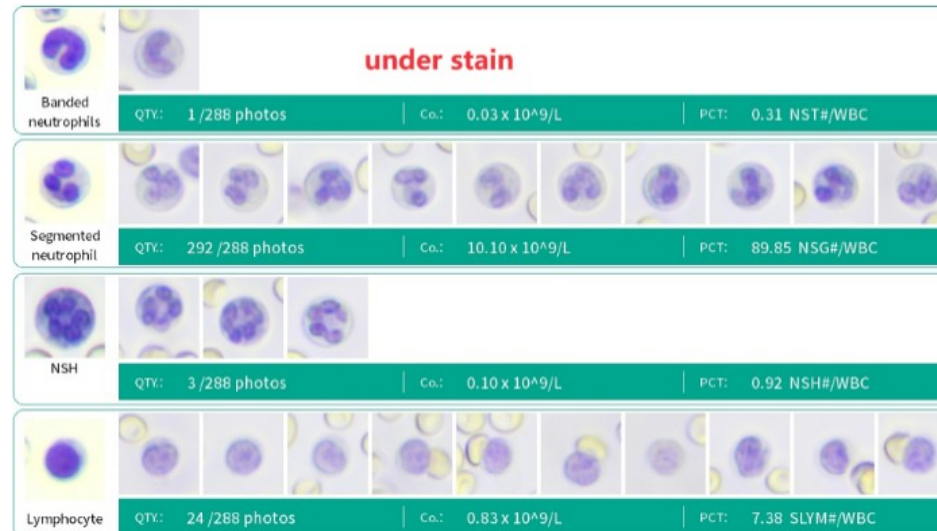
1. Urine no need to centrifugation;
2. Bladder puncture is preferred;
3. Urine and reagent must be fully mixed before sampling is added to the chip;
4. Hematuria samples: Severe urine blood samples will affect the accuracy of the results, so it is recommended to conduct manual microscopy.
5. **Do not use the heating plate to heat the chip!**

Note: Chyluria and jaundice urine, the test results may be abnormal.

# Problems & Solutions

# Stain Quality Check

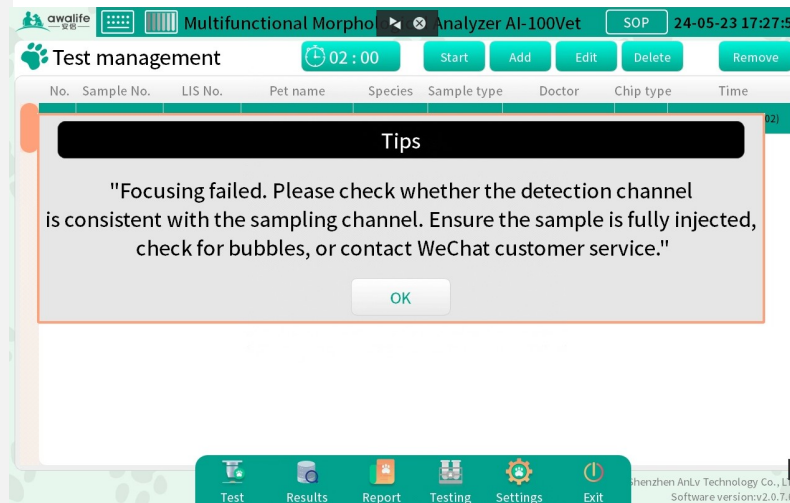
- ① First confirm stain effect, proper stain=reliable report
- ② Understain, **Read it Again** (low temperature), expected result: low WBC; feces mucus cause blue smudge
- ③ Overstain, ruined (heating when not necessary, waiting time too long)--**Run New Test**



# Fecal Sample Too Concentrated

## Solution:

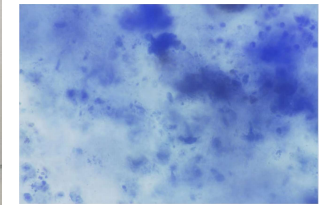
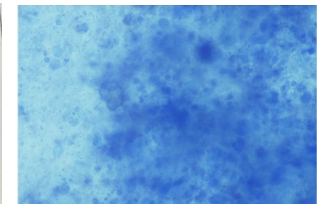
Dilute the sample to the turbidity range of the turbidity card, re-add the sample, and refill the cell for testing.



Instrument Warning



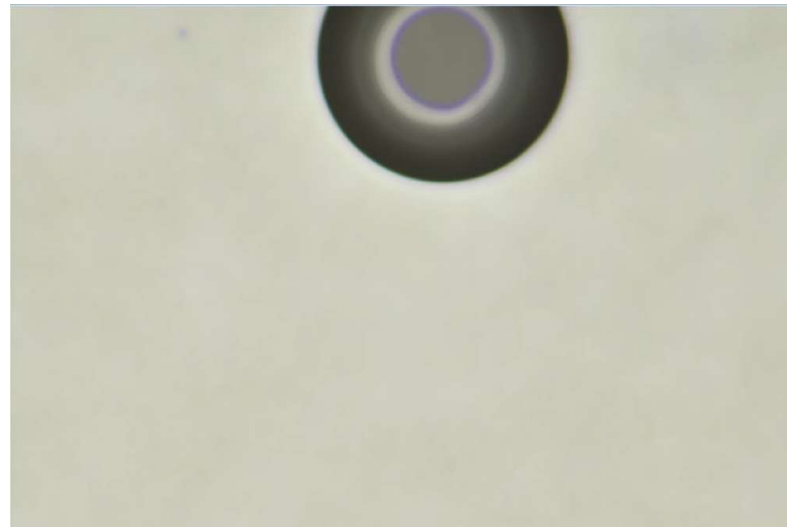
Filling Status



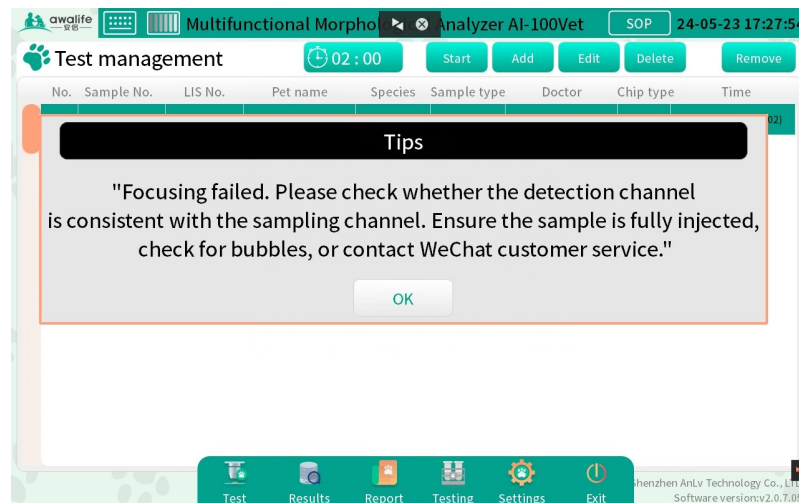
Focusing Images

# Bubbles

- ① If there are bubbles inside chip, machine may pop out error tips“Focusing failed”
- ② Bubbles <2mm, no effect the test result
- ③ **Bubbles >2mm, may interfere the result**
- ④ **Bubbles > half channel diameter, reload sample on new test channel and retest**



Bubbles Image



Instrument Warning

Thank you

Q u e s t i o n s ?