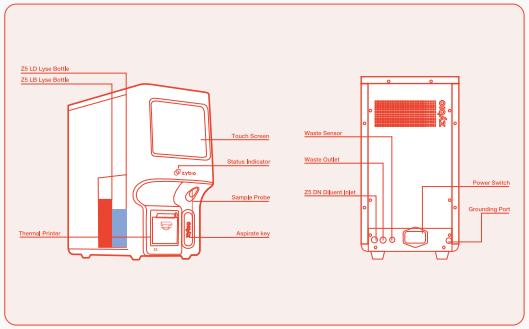
Z5 Series Hematology Analyzer Quick Guide

1. Appearance Description



2. Daily Operating Process

STEP 1 Preparation

STEP 2 Startup

STEP 3 Daily L-J QC

STEP 4 Sample Preparation

STEP 5 Sample Analysis

STEP 6 Result Review

STEP 7 Shutdown

2.1 Preparation

- Check the waste bucket and make sure it's not full.
- Check the reagents to see if the reagents are expired or frozen.
- Check the thermal printer and make sure enough printer paper is installed.

2.2 Startup

- Press power switch at the back of the analyzer.
- Input **username** and **password**. (Default: Username: admin,Password: admin)

2.3 Daily L-J QC

- Tap the menu option **"QC"** => **"L-J QC"** => **"Setting"**.
- Enter the **"L-J QC setting"** interface. Tap **"New"**, or select a QC file without QC results.
- Enter the expiration date of the lot.
- Select **"control level"**, **"control type"** and **"QC mode"** and set **"QC sample ID"**.
- Enter the target and limits in the edit boxes according to the package insert of the lot of controls.
- Take out one level of control from the refrigerator and handle it as the control insert.
- Run control under the "QC" interface and review the **"QC graph"** or **"QC table"**.

2.4 Sample Preparation

- The analyzer can run 3 types of samples:venous whole blood samples, capillary whole blood samples and prediluted samples.
- Venous whole blood: collect at least 0.5 mL EDTA-K_3 or EDTA-K_2 whole blood and run it within 15 min to 8 hours after being collected to ensure the accuracy of the results.
- Capillary whole blood: collect at least 100 μL whole blood and run it within 5 min to 2 hours after being collected to ensure the accuracy of the results.
- Blood samples shall be mixed as shown in the following figures.

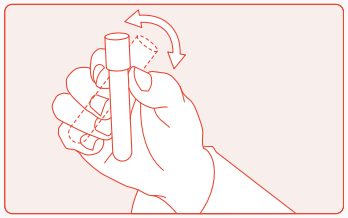


Figure 1 Upside down and mix at least 8 times

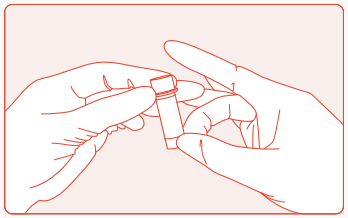


Figure 2 Flip and mix well(Used for capillary whole blood)

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2.5 Sample Analysis

2.5.1 Venous Whole Blood Analysis

Tap **"Analysis"** and tap **"next sample"**.

Choose **"VWB-CBC"** or **"VWB-CBC"** or **"VWB –CBC+ DIFF"** analysis mode (default mode: **"VWB-CBC+DIFF"**)

Input patient information.
Mix the sample as above 2.4.

Put the sample under the sample probe and press aspirate key.

2.5.2 Capillary Whole Blood Analysis

Tap **"Analysis"** and tap **"next sample"**.

Choose **"CWB-CBC"** or **"CWB –CBC+DIFF"** analysis mode.

Input patient information.
Mix the sample as above 2.4.

Put the sample under the sample probe and press aspirate key.

2.5.3 Prediluted Blood Analysis

Tap **"Diluent"** and use a clean centrifugal tube to aspirate 480 μL diluent.

Collect 20 μL of capillary blood with a tube contained diluent. Mix the sample as above 2.4.

Run it within 5 min to 30 min after being collected to ensure the accuracy of the results.

Choose **"PD-CBC" or "PD-CBC+ DIFF"** analysis mode and input patient information.

Put the mixed sample under the sample probe and press aspirate key.

2.6 Result Review

Select **"Review"**.

Select relevant results to manage: **"Graph Review"/ "Trend graph"/ "Print"/ "Export"/ "Validate"**.

Tap and enter **"Graph Review"** Interface to see the parameter, histogram and scattergram.

2.7 Shutdown

Tap **"Shutdown"**.

Put Probe cleanser under the sample probe and press aspirate key.

Press the power switch after cleaning.

3. Replace Reagent

When LD/LB Lyse or DN Diluent is ran out.

Please tap **"Reagent"** => **"Replace Reagent"**.

Take out a new reagent and get the new RIFD card. Put it on the RIFD reader that can be automatically identified to get the specification of reagent.

Connect the new reagent.

Tap **"Apply"** and prime the reagent automatically.

4. Routine Maintenance

- When analyser shows any alarm, please tap **"Alarm"** information interface and tap **"Clear"**.If alarm still exists, please follow steps below.
- **【Background Abn./ Sample result is not good】** Tap **"Management"=> "Service"** => **"Maintenance"=> "Whole Device"**, then start probe cleanser soaking.
- **【HGB Blank Voltage Abn.】** Tap **"Management"=> "Setup"=> "System"** => **"Gain"** => **"4.5 V"=> "OK"**, then retest one sample.
- **【LB Lyse/LD Lyse/DN Diluent Empty】** Tap **"Management"** => **"Service"** => **"Maintenance"** => **"DN Diluent" or "LD Lyse" or "LB Lyse"** , then start to prime reagents.
- When the analyser reminds you to do the **"cleanser soak"**, perform it as instruction.
- If the analyser is not to be used over 1 week or needs transportation, perform **"Drain All"** as instruction.