

# BIOBASE

## Hematology Analyzer Lyse Instruction

### 【NAME】

Hematology Analyzer Lyse

### 【MODEL】

SFL

### 【PACKING SPECIFICATION】

1L, 500mL, 300mL, 250mL, 200mL, 120mL.

### 【INTENDED USE】

Destruction of red blood cells, dissolve hemoglobin. Maintaining the morphology of the required analytical cells, convenient for cell classification count or hemoglobin quantitative determination.

### 【METHODOLOGY】

The hematology analyzer lyse is carried out with its matched diluent fluid. It is used to dissolve red blood cells before analysis, perform five grouping of white blood cells, and provide histogram of white blood cell grouping. The hemolytic agent is a new hemolytic agent for blood analyzer. The hematology analyzer lyse has the ability to rapidly dissolve red blood cells and release hemoglobin. And the red cell debris can not interfere the count of white blood cells. At the same time, hemoglobin is converted into a stable hemoglobin complex, which is conducive to the detection of hemoglobin concentration. The hematology analyzer lyse can ensure the integrity of white nuclei in dissolution of red blood cells. Only in this way can the accuracy of white blood cell count and classification be ensured.

### 【THE MAIN COMPONENTS】

Na <sub>2</sub> HPO <sub>4</sub>	46.7g/L
KH <sub>2</sub> PO <sub>4</sub>	6.3 g/L
hexadecyltrimethylammonium bromide	50g/L
octylphenol ethoxylate OPE9	50mL/L
NaNO <sub>2</sub>	1.1g/L

### 【STABILITY AND STORAGE】

Unopened, avoid light preservation between 8~30°C, valid for 18 months. Opened, avoid light preservation between 8~30°C, valid for 2 months.

### 【APPLICABLE INSTRUMENT】

3 part diffhematology analyzer.

### 【OPERATION STEPS】

Refer to the device manual.

### 【PERFORMANCE INDEX】

1. pH: 9±0.50.
2. Absorption peak wavelength: after hemolysis, the hemoglobin derivative  $\lambda_{\max}$  should be in the range of 540±10nm.
3. Blank count: WBC≤0.5×10<sup>9</sup>/L, hemoglobin (HGB) content ≤2g/L.
4. Accuracy: WBC relative deviation ≤±7.5%, HGB relative deviation ≤±3.5%.
5. White blood cell histogram: The white blood cell histogram of healthy people should meet the following requirements:
  - a) had two group peaks of small cells and large cells.

b) contain peak shape and mark of analysis required.

6. Batch differences:

- a)  $\Delta pH \leq 1.0$ .
- b) absorption peak wavelength  $\Delta \lambda_{\max} \leq 10\text{nm}$ .

### 【ATTENTION】

1. Use it under the guidance of professional.
2. It is recommended that operators wear rubber gloves and masks to avoid contact between hematology analyzer lyse and eyes and skin. If they are accidentally contacted, please wash them with clean water and seek medical treatment immediately.
3. Avoid inhaling the gas in the hematology analyzer lyse. Do not take it internally. If took it mistakenly, please consult the doctor in time.
4. Abnormal bilirubin, lipids and white blood cells can affect the results of hemoglobin concentration.
5. Tighten the lid of the container. Prevent volatilization or contamination.
6. Prevent freezing. If frozen, melt to room temperature (15°C-30°C) and mix it evenly before use.
7. If the hematology analyzer lyse is not used up within 60 days after opening, the reagent shall be discarded.
8. Waste liquid should be sterilized by adding an appropriate amount of disinfectant or sodium hypochlorite. Then dilute with a large amount of water and deal with it according to relevant local regulations.
9. Different batches reagents cannot mix.

### 【IDENTIFICATION INTERPRETATION】

↑↑ up

### 【REFERENCE】

《National Guide to Clinical Laboratory Procedures》 3rd edition.

### 【Manufacturer】

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