

# BIOBASE

## Hematology Analyzer Diluent Instruction

### 【NAME】

Hematology Analyzer Diluent

### 【MODEL】

SFL-1

### 【PACKING SPECIFICATION】

1L,2L,3L,5L,10L,18L,20L.

### 【INTENDED USE】

Dilution of samples, preparation of cell suspension.

### 【METHODOLOGY】

Diluent is a buffer solution that dilutes cells and prevents cell aggregation. With proper osmotic pressure, ionic strength and electrical conductivity, the integrity and original volume of blood cells can be maintained within a few hours.

### 【THE MAIN COMPONENTS】

NaCl	8.2 g/L
Na <sub>2</sub> HPO <sub>4</sub>	5.8g/L
KH <sub>2</sub> PO <sub>4</sub>	0.27g/L
KCl	0.2 g/L
ethylenediaminetetraacetic acid disodium salt	0.3 g/L
ethelene glycol monophenyl ether	3mL/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: 7±0.20
2. Electroconductibility(ρ): should be in the range of 1300±50mS/m.
3. Osmotic concentration: should be in the range of 300±10mmol/L(mOsm/kg).
4. Blank count: Particle counts of PLT should be ≤ 10×10<sup>9</sup>/L.
5. Accuracy: WBC relative deviation ≤ ±7.5%. RBC relative deviation ≤ ±3.0%. PLT relative deviation ≤ ±12.5%. HGB relative deviation ≤ ±3.5%. MCV/HCT relative deviation ≤ ±3.0%.

6. Batch differences:

- 1) ΔpH≤0.40;
- 2) Δρ≤100mS/m.
- 3) Δosmotic concentration≤20mmol/L (mOsm/kg) .

### 【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 diluent. Do not take it internally. If took it mistakenly, please consult the doctor in time.
4. When the temperature of blood sample returns to room temperature and fully mixed, it can be detected by the hematology analyzer.
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 diluent is not used up within 60 days after opening, the reagent shall be discarded. The treatment method is to dilute the diluent 10 times and pour it out.
8. Add 30mL of sodium hypochlorite solution with an effective chlorine content of 5% to 1L of waste liquid, stir and place for 30 minutes. Then rinse with a large amount of water.
9. Different batches reagents cannot mix.

### 【IDENTIFICATION INTERPRETATION】

↑↑ Up

### 【REFERENCE】

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

### 【Manufacturer】

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