

## **Vacuum blood collection system**



The company has always been committed to improving product quality and process flow, using imported original fully automated production lines and the vast majority of production raw materials. Strict process control and quality monitoring have resulted in excellent performance of blood collection products and demonstrated high stability, fully in line with domestic and international standards and industry standards.

### **\*Safety cap**



1. Easy to open and reset, allowing for one hand operation.
2. The color of the head cover meets internationally recognized standards.
3. When turned on, blood will not splash, with high safety performance.
4. Adopting high-quality synthetic butyl rubber with stable properties.
5. There is no exchange or other reaction with blood components, and there is rarely any shedding of debris.

### **\*High quality plastic pipe series**



1.The variety and specifications are complete, providing customers with flexible customization to meet the needs of clinical and research laboratories worldwide.

2.Adopting high-quality PET material, it has good vacuum retention characteristics.

3.Capable of withstanding high intensity pressure and without the risk of breakage, suitable for the collection of high-risk specimens.

4.It can be directly incinerated or high-pressure destroyed without generating toxic gases.

5.Pure PET material with stable properties and no exchange or other reactions with blood.

### **\*Highly silicified inner wall**

1.The inner surface of the rubber plug and the inner wall of the pipe have undergone uniform silicification treatment.

2.PET plastic pipes use double silicification technology to make the surface extremely smooth, reducing cell damage and avoiding cell wall adhesion.

\*High quality coagulant

1. Nanometer sized fine particles are evenly sprayed on the pipe wall by spray drying technology.

2. Promote complete coagulation of blood within 10-15 minutes, complete contraction of blood clots, and minimal occurrence of fibrin filaments and wall sticking.

3. Silicone is the main component and does not contain any biological components, which will not interfere with enzyme indicators or enzymatic reactions.

\*Efficient separation adhesive

1. Using highly inert high-quality separation adhesive, it has the characteristic of no physical or chemical interference with conventional test items.

2. Rapid centrifugation for 5-10 minutes can obtain clear, transparent, and abundant serum samples.

3. Low temperature storage, allowing for frozen storage of specimens.

It has high stability and rarely experiences "oil droplets" after storage and centrifugation.

**\*Accurately pre measure vacuum and additives**

According to the recommendations of CLSI (NCCLS) and national standard CCCLS, standard quantitative additives have been pre placed.

The accurately pre-set vacuum ensures the accurate ratio of Xuexiang to additives.

The form of additives is diverse. The main application of spray drying technology is to make the anticoagulation or coagulation promoting effect even, mild and thorough.

**\*Matching with various automation instruments**

There are multiple standard specifications available for selection, including 13x75mm, 13x100mm, 16x100mm, and 8x120mm.

Without the need for specimen transfer, the original tube can be put on the machine and the original tube specimen can be saved.

Specially designed rubber plugs for direct machine blood collection, facilitating machine direct puncture.

Strict size specification management, matching with various imported and domestic automated instruments, and fully automated analysis preprocessing systems. Perfect integration with various LIS systems.

**\*Special label custom**

Various special labels can be customized according to customer needs.

The label paper is made of waterproof paper, which is resistant to immersion and does not fall off. The barcode is printed with full digital Ricoh spray tape, with clear and easy to recognize fonts, and is wear-resistant and wear-resistant. At present, we have prepared standard label tubes, detachable standard label tubes, barcode label tubes for our customers, and customized labels have been attached to the products when they leave the factory.

#### \*Special plateau tube series

According to different altitude conditions, corresponding negative pressure vacuum blood collection vessels are specially designed to achieve stable and accurate negative pressure vacuum in high altitude areas, while ensuring the accuracy and stability of the proportion of blood and additives.

Vacuum blood collection tubes Types:

#### 1.Plain tube



Used for the collection and storage of blood samples in clinical medical tests such as biochemistry, immunity, and serum. The inner wall is

specially treated and extremely smooth, effectively preventing blood cells from adhering to the wall and minimizing in vitro hemolysis of the specimen.

NO.	SPEC	CAPA	Additive	Quantity	PET tube quantity
	mm	ml		Pcs x bag	Pcs x bag
HC030A	13 x 75	3	NONE	100 x 18	100 x 18
HC040A	13 x 75	4	NONE	100 x 18	100 x 18
HC050A	13 x 75	5	NONE	100 x 18	100 x 18
HC051A	13 x 100	5	NONE	100 x 18	100 x 18
HC061A	13 x 100	6	NONE	100 x 18	100 x 18
HC071A	13 x 100	7	NONE	100 x 18	100 x 18
HC082A	16 x 100	8	NONE	50 x 18	50 x 18
HC092A	16 x 100	9	NONE	50 x 18	50 x 18
HC102A	16 x 100	10	NONE	50 x 18	50 x 18

## 2. Gel and Clot Activator Tube



It is used to obtain high-quality serum samples in biochemical, immune, serum and other clinical medical tests. Evenly coating gel on the inner wall can greatly shorten the blood coagulation time. The separating gel is pure and its physicochemical properties are relatively stable. After centrifugation, it solidifies to form a barrier, completely separating serum and blood cells, effectively preventing the exchange of substances between them.

NO.	SPEC	CAPA	Additive	Quantity	PET tube quantity
	mm	ml		Pcs x bag	Pcs x bag
HC030AS	13 x 75	3	Separation adhesive /coagulant	100 x 18	100 x 18
HC040AS	13 x 75	4	Separation adhesive /coagulant	100 x 18	100 x 18
HC050AS	13 x 75	5	Separation adhesive /coagulant	100 x 18	100 x 18
HC051AS	13 x 100	5	Separation adhesive /coagulant	100 x 18	100 x 18
HC061AS	13 x 100	6	Separation adhesive /coagulant	100 x 18	100 x 18
HC071AS	13 x 100	7	Separation adhesive /coagulant	100 x 18	100 x 18
HC102AS	16 x 100	10	Separation adhesive /coagulant	50 x 18	50 x 18

### 3. EDTA Tube



Used for clinical hematology tests, such as blood routine tests; Suitable for various blood cell analyses (such as microscopic examination of blood cell morphology, blood cell count, hematocrit, hemoglobin, sickle cell assay, etc.). EDTAK3 can be added as needed.

NO.	SPEC	CAPA	Additive	Quantity	PET tube package
	mm	ml		Pcs × bag	Pcs × bag
HC010K2E	13 × 75	1	EDTAK2	100 × 18	100 × 18
HC020K2E	13 × 75	2	EDTAK2	100 × 18	100 × 18
HC030K2E	13 × 75	3	EDTAK2	100 × 18	100 × 18
HC040K2E	13 × 75	4	EDTAK2	100 × 18	100 × 18
HC050K2E	13 × 75	5	EDTAK2	100 × 18	100 × 18
HC051K2E	13 × 100	5	EDTAK2	100 × 18	100 × 18
HC061K2E	13 × 100	6	EDTAK2	100 × 18	100 × 18
HC071K2E	13 × 100	7	EDTAK2	100 × 18	100 × 18
HC102K2E	16 × 100	10	EDTAK2	50 × 18	50 × 18

#### 4. Heparin Tube



Used for blood sample collection and anticoagulation (blood rheology test) in clinical biochemical and emergency biochemical tests quantitative, biochemical, genetic diagnosis, enzymology, enzyme immunoassay, and other tests.



NO.	SPEC	CAPA	Addictive	Quantity	PET tube quantity
	mm	ml		Pcs x bag	Pcs x bag
HC030NH	13 x 75	3	Heparin sodium/ heparin lithium	100 x 18	100 x 18
HC040NH	13 x 75	4	Heparin sodium/ heparin lithium	100 x 18	100 x 18
HC051NH	13 x 100	5	Heparin sodium/ heparin lithium	100 x 18	100 x 18
HC071NH	13 x 100	7	Heparin sodium/ heparin lithium	100 x 18	100 x 18
HC102NH	13 x 100	10	Heparin sodium/ heparin lithium	100 x 18	100 x 18

## 5. Pro-Coagulation Tube



Used for rapid collection of blood samples in clinical medical tests such as biochemistry, immunology, and other related fields. The inner wall has undergone special treatment and is extremely smooth. The inner wall is sprayed with coagulant to completely coagulate the blood within 5-8 minutes. No need to use any heating equipment (such as a water temperature box).

NO.	SPEC	CAPA	Addictive	Quantity	PET tube quantity
	mm	ml		Pcs x bag	Pcs x bag
HC030Z	13 x 75	3	Coagulant	100 x 18	100 x 18
HC040Z	13 x 75	4	Coagulant	100 x 18	100 x 18
HC050Z	13 x 75	5	Coagulant	100 x 18	100 x 18
HC051Z	13 x 100	5	Coagulant	100 x 18	100 x 18
HC061Z	13 x 100	6	Coagulant	100 x 18	100 x 18
HC071Z	13 x 100	7	Coagulant	100 x 18	100 x 18

## 6. PT Tube



For the examination of coagulation items, the ratio of anticoagulant to blood sample is set at 1:9, with precise ratio to ensure the effectiveness of the test results and avoid misdiagnosis. Due to the low toxicity of sodium citrate, it is also used for blood preservation.

NO.	SPEC	CAPA	Addictive	Quantity	PET tube quantity
	mm	ml		Pcs x bag	Ps x bag
HC018NC	13 x 75	1.8	sodium citrate	100 x 18	100 x 18
HC027NC	13 x 75	2.7	sodium citrate	100 x 18	100 x 18
HC036NC	13 x 75	3.6	sodium citrate	100 x 18	100 x 18

## 7. Glucose Tube

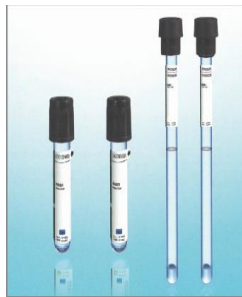


Used for the determination of clinical blood sugar values, it can maintain the original characteristics of blood samples for a long time. Effectively prevent blood glucose metabolism and ensure constant blood glucose detection data within 72 hours. Additives include sodium

fluoride+potassium oxalate, sodium fluoride+heparin sodium, sodium fluoride+EDTAK2, and sodium fluoride+EDTAN2.

NO.	SPEC	CAPA	Additive	Quantity	PET tube quantity
	mm	ml		Pcs x bag	Pcs x bag
HC020FX	13 x 75	2	NaF/K <sub>2</sub> C <sub>2</sub> O <sub>4</sub>	100 x 18	100 x 18
HC030FX	13 x 75	3	NaF/K <sub>2</sub> C <sub>2</sub> O <sub>4</sub>	100 x 18	100 x 18
HC040FX	13 x 75	4	NaF/K <sub>2</sub> C <sub>2</sub> O <sub>4</sub>	100 x 18	100 x 18
HC031FX	13 x 100	3	NaF/K <sub>2</sub> C <sub>2</sub> O <sub>4</sub>	100 x 18	100 x 18
HC041FX	13 x 100	4	NaF/K <sub>2</sub> C <sub>2</sub> O <sub>4</sub>	100 x 18	100 x 18
HC051FX	13 x 100	5	NaF/K <sub>2</sub> C <sub>2</sub> O <sub>4</sub>	100 x 18	100 x 18
HC061FX	13 x 100	6	NaF/K <sub>2</sub> C <sub>2</sub> O <sub>4</sub>	100 x 18	100 x 18

## 8.ESR Tube



Dedicated to the collection and anticoagulation of blood samples for the measurement of red blood cell sedimentation rate using the Weiss erythrocyte sedimentation rate method. Used in conjunction with various brands of fully automatic erythrocyte sedimentation rate analyzers. Due to the small amount of blood collected, the negative pressure inside the tube is relatively small, and the blood collection time is relatively long. It is necessary to patiently wait until the blood stops flowing into the blood collection vessel and mix it 5-8 times to fully mix the anticoagulant and blood. Improper mixing can cause hemolysis,

coagulation, or blood bubbles, which can affect the test results.

NO.	SPEC	CAPA	Additive	Quantity	PET tube quantity
	mm	ml		Pcs x bag	Pcs x bag
HC016NC	13 x 75	1.6	sodium citrate	100 x 18	100 x 18
HC024NC	13 x 75	2.4	sodium citrate	100 x 18	100 x 18

NO.	SPEC	CAPA	Additive	Quantity
	mm	ml		Pcs x bag
HC028NC	9 x 120	1.28	枸橼酸钠	100 x 18