



Professional Medical Supplies



Blood collection, safe, easy to operate



## Blood Bag

Professional Medical Supplies

Professional medical blood bag  
Safety and reliable

NANYA medical



## About NANYA

Nanya Plastics Corporation is the world's largest plastic processing plant, spanning various industries such as chemicals and electronics, etc. We have accumulated a lot of rich experience and resources, and in recent years we have branched out into the medical field and continued to research and develop medical equipment.

In 2021, Taiwan's first leukocyte reduction blood bag system factory will be established. The leukocyte reduction Filter is a technology licensed from Puriblood and produced by Nanya Manufacturing. Puriblood is Taiwan's first professional technology company in the "blood treatment membrane" field. After years of intensive cultivation of basic membrane technology, it has developed medical equipment related to blood treatment and is a leader in dual-ion technology. Through the experience and resources of Nanya combined with Puriblood's professional technology, we can develop large-scale, high-quality products in a vertically integrated manner, create a complete supply chain, implement localized production, and provide solutions for products in the medical field.

In order to reduce the immune response caused by blood transfusion and improve the safety of blood quality, leukocyte-reducing blood products are a trend that has been promoted at home and abroad in recent years. In the past, there was no experience in making homemade blood bags in China. The medical materials factory established by Nanya is the first leukocyte reduction blood bag system factory in Taiwan and the first factory to implement the localization of blood bags. It has passed ISO 13485 international standards and QMS system certification ensures product safety with high-standard quality control, implements strict specifications for medical equipment, and continues to improve research and development of new fields and products, and continues to pursue higher services in the medical field.

### 1.Needle

- 16G/17G Specification.
- Ultra-thin wall design for better blood flow collection speed.

### 2.Needle Protector

- Reduces risk of blood collection needle stick injuries.

### 3.Diversion Port Device

- Convenient for blood collection.
- Comes with safety cover to avoid needle stick injuries.

### 4.Diversion Pouch

- Safe and convenient, collect contamination-free blood into sampling bags for laboratory testing.
- Capacity size 40ml.

### 5.Clamp

- After the blood is collected in the sampling bag, it can be effectively and safely blocked.

### 6.PVC Tubing

- Medical grade PVC.
- Has coding to facilitate cross-match testing and identification sampling.

### 7.Leukocyte Filter

- Reduce blood white blood cells and reduce adverse reactions to blood transfusions.
- High filtration efficiency.
- High red blood cell recovery rate.
- Blood loss is low.

### 8.Breaker Valve

- Clip-tip easy to operate design.

### 9.Anticoagulant

- CPDA-1, Red blood cell concentrate can be preserved for up to 35 days.

### 10.Label

- ISBT 128 Code and UDI barcode can be used for identification.
- Ensure traceability.

### 11.Blood bag

- Medical grade PVC
- DEHP stabilizes blood preservation.



## NANYA medical Blood Bag

### FEATURES

- Medical grade PVC.
- Used for blood collection, processing, filtration and management of blood.
- Single use.
- High temperature and high pressure sterilization.
- Safe and efficient blood transfusion.
- Easy opening design, convenient to use.
- The sterile joint blood transfer insertion port is not directly exposed to the environment and has good protection.

## SPECIFICATIONS

Type	Main Bag Capacity	Sub-bag Capacity	Donor Needle	Safety Optional Parts
Single	250ml	200ml	16G	Needle Protector
Double	350ml	250ml	17G	Diversion Port Device
Triple	450ml	300ml		Diversion Pouch
Quadruple	500ml	350ml 400ml 450ml 500ml		

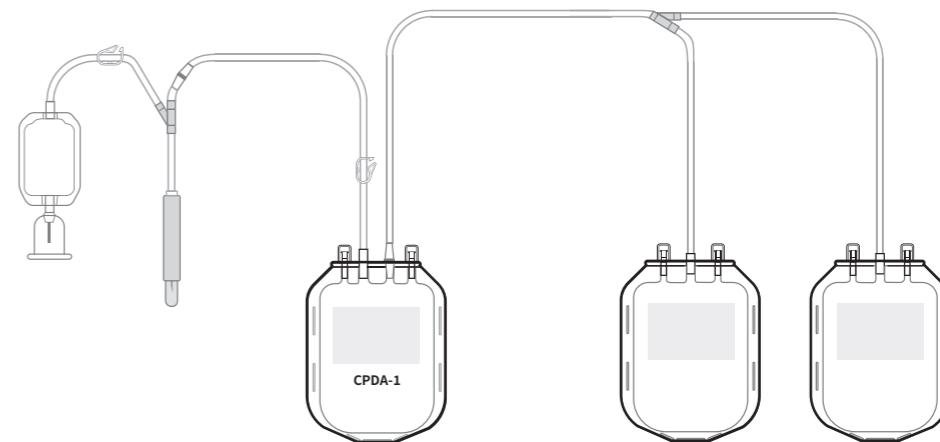
\*Anticoagulant : CPDA-1

※Available as option according to needs

## Triple Blood Bag

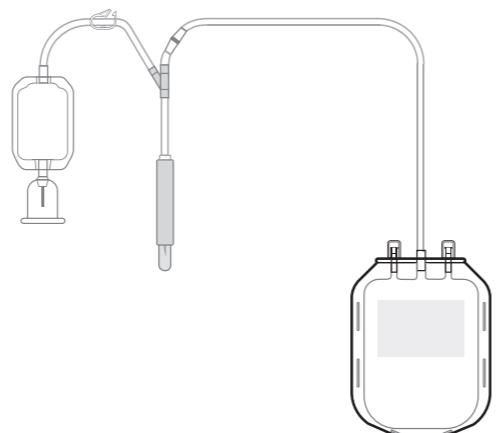
For blood collection, one main bag and two sub-bags.

Can collect "red blood cell concentrate", "fresh frozen plasma", and "cryoprecipitate"/"platelet concentrate".



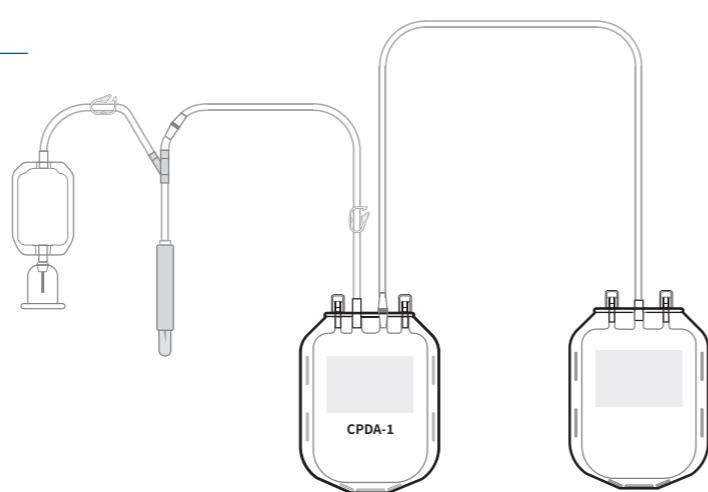
## Single Blood Bag

For blood collection or bloodletting treatment,  
A main bag to collect "Whole Blood".



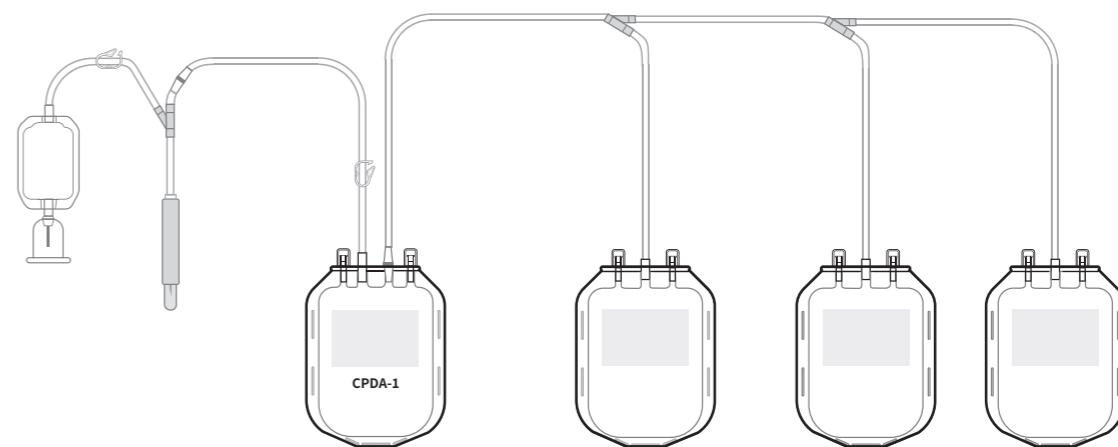
## Double Blood Bag

For blood collection, one main bag and  
one sub-bag.  
Can collect "red blood cell concentrate"  
and "frozen plasma".



## Quadruple Blood Bag

For blood collection, one main bag and three sub-bags.  
Can collect "Red Blood Cell Concentrate", "Platelet Concentrate", "Cryoprecipitate" and "Frozen Plasma".



## MODEL SPECIFICATION

**B**

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<b>Type</b>		<b>Main Bag Capacity</b>		<b>Sub-bag Capacity</b>		<b>Anticoagulant</b>		<b>Donor Needle</b>		<b>Safety Optional Parts</b>		
Code	Description	Code	Description	Code	Description	A	CPDA-1	Code	Description	A	NP,DPD,DP	
<b>S</b>	Single	<b>250</b>	250ml	<b>2</b>	200ml			<b>6</b>	16G	<b>B</b>	NP,DPD	
<b>D</b>	Double	<b>350</b>	350ml	<b>3</b>	300ml			<b>C</b>	NP	<b>C</b>		
<b>T</b>	Triple	<b>450</b>	450ml	<b>4</b>	400ml			<b>D</b>	DPD,DP	<b>D</b>	DPD,DP	
<b>Q</b>	Quadruple	<b>500</b>	500ml	<b>5</b>	500ml			<b>E</b>	DPD	<b>E</b>	DPD	
		<b>7</b>	250ml	<b>8</b>	350ml			<b>X</b>	-	<b>X</b>	-	
		<b>9</b>	450ml									
		<b>X</b>	No Sub-bag									



## ADVANTAGES

- Strictly control blood bag quality to the highest standards.
- Taiwan's first company with professional technology for leukocyte reduction filter.
- Excellent anti-leakage performance, allowing oxygen and carbon dioxide permeability. Blood bag sterilization adopts moist heat sterilization and complies with verification.
- The blood bags have passed professional certification and are made locally to ensure stable supply.

Blood Bag

Leukocyte Reduction System

Leukocyte Reduction System for Whole Blood

Leukocyte Reduction Filter for red blood Cells

# Leukocyte Reduction System

leukocyte reduction • safe • easy to operate

Nanya's Leukocyte Reduction Filter uses ZISC technology to create a membrane that is highly hydrophilic and compatible with human whole blood. In addition to ensuring the even distribution of blood flow, it can also perform preliminary filtration and effectively remove white blood cells in the central layer. Removal of leukocytes can avoid the production of inflammatory cytokines released by leukocytes and the reaction of leukocyte antibody antigens during storage.

## FEATURES

- Reduce the number of white blood cells in blood products.
- Reduce non-hemolytic febrile transfusion reactions.
- High filtration efficiency.



## ADVANTAGES

- Fast filtration speed: Compared with ordinary Leukocyte Reduction Filter , the average filtration time can be reduced by 30%.
- High white blood cell removal rate: The white blood cell removal rate through Nanya's Leukocyte Reduction Filter is as high as 99.99%.
- High recovery rate of red blood cells: the recovery rate of filtered red blood cells is as high as 90%.
- Small blood loss: the actual blood loss remaining in the Leukocyte Reduction Filter is less than 30ml.

## Performance

Volume	pRBC(280ml-300ml)
Residual Hold-Up Volume	<30ml
Leukocyte Removal Rate	>99.99%
RBCs Recovery	>90%
Post-Filtration Hemolysis	<0.8%
Filtration Time	<20min(if processed in 2-6°C)
Post Donation Storage	2-6°C

# Leukocyte Reduction System for Whole Blood

- In-line System : Closed design to avoid operational contamination
- Reduce the number of white blood cells in blood products and reduce non-hemolytic febrile transfusion reactions
- Medical grade PVC.
- High efficiency filtration.
- High red blood cell recovery rate.
- Low blood loss.
- Single use.
- High temperature and high pressure sterilization.
- Remove white blood cells from the blood to reduce non-hemolytic febrile transfusion reactions.

## SPECIFICATIONS

Type	Main Bag Capacity	Sub-bag Capacity	Donor Needle	Safety Optional Parts
Triple Quadruple	250ml	200ml	16G	Needle Protector
	350ml	250ml	17G	Diversion Port Device
	450ml	300ml		Diversion Pouch
	500ml	350ml		
		400ml		
		450ml		
		500ml		

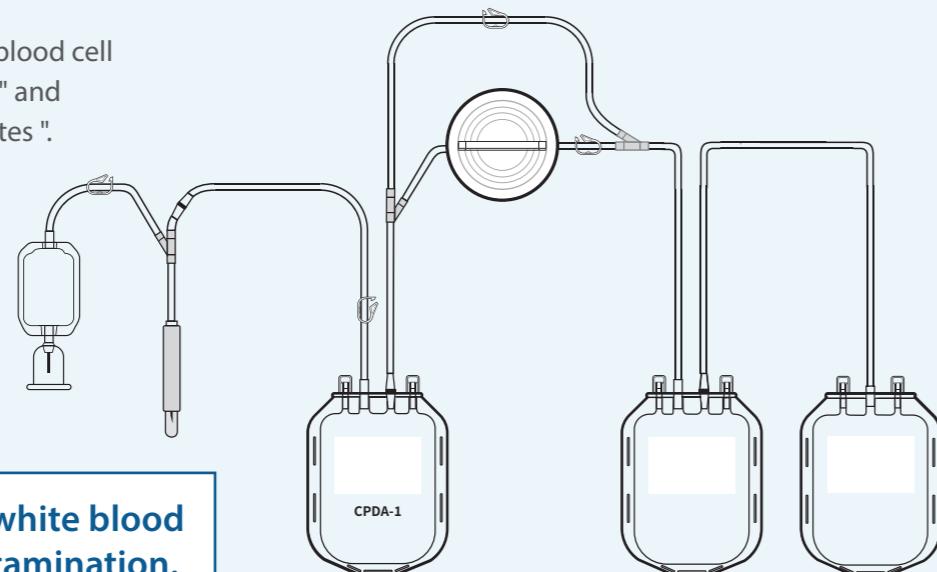
\*Anticoagulant : CPDA-1

※Available as option according to needs



## In-line Triple Blood Bag

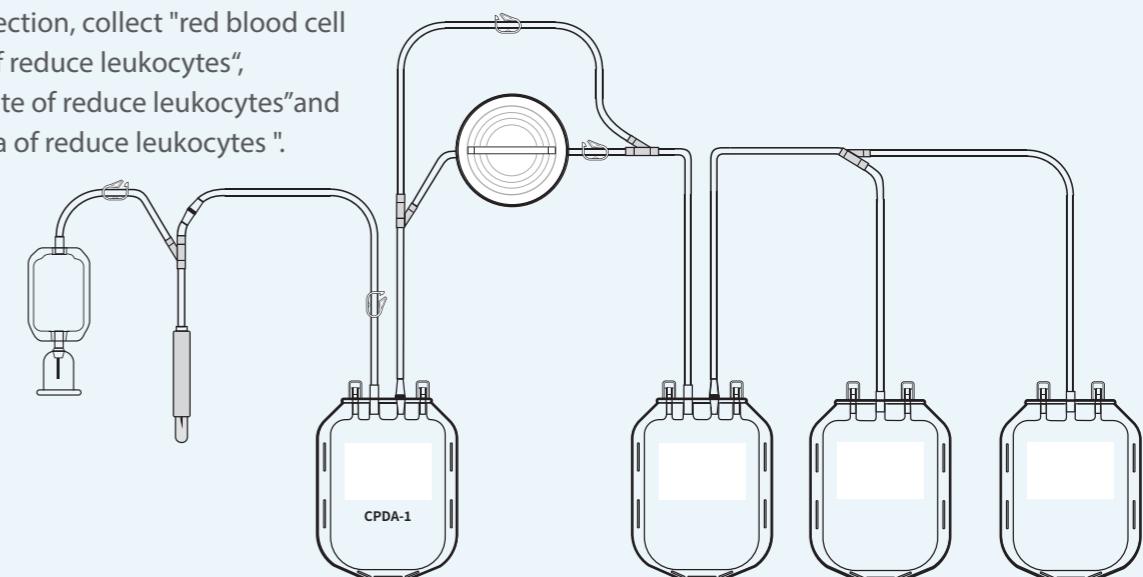
For blood collection, collect "red blood cell concentrate of reduce leukocytes" and "frozen plasma of reduce leukocytes".



The closed system filters white blood cells, reducing blood contamination.

## In-line Quadruple Blood Bag

For blood collection, collect "red blood cell concentrate of reduce leukocytes", "cryoprecipitate of reduce leukocytes" and "frozen plasma of reduce leukocytes".



# Leukocyte Reduction Filter for Red Blood Cells

## MODEL SPECIFICATION

W		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Type		Main Bag Capacity		Sub-bag Capacity		Anticoagulant		Donor Needle				
Code	Description	Code	Description	Code	Description	Code	Description	Code	Description			
T	Triple	250	250ml	2	200ml	A	CPDA-1	6	16G			
Q	Quadruple	350	350ml	3	300ml			7	17G			
		450	450ml	4	400ml							
		500	500ml	5	500ml							
		7	250ml	8	350ml							
		9	450ml	X	No Sub-bag							

**Safety Optional Parts**

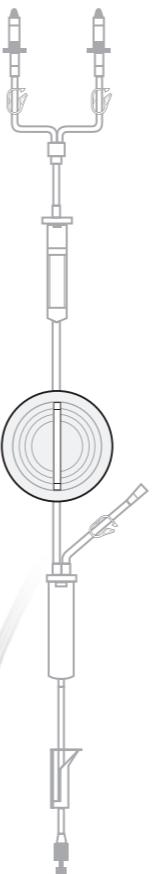
Code	Description
A	NP,DPD,DP
B	NP,DPD
C	NP
D	DPD,DP
E	DPD
X	-

- NP , Needle Protector
- DPD , Diversion Port Device
- DP , Diversion Pouch

- Reduce the number of white blood cells in red blood cells and reduce non-hemolytic febrile transfusion reactions.

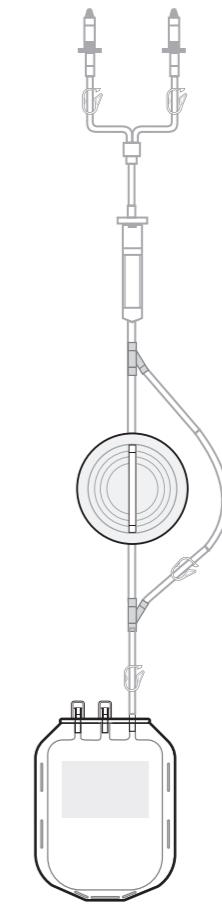
## Bedside type

For blood collection, collect "red blood cell concentrate of reduce leukocytes" and "frozen plasma of reduce leukocytes".



## Blood bank type

Transfer bag capacity : 250ml, 500ml



Blood Bag

Leukocyte Reduction System

Leukocyte Reduction System for Whole Blood

Leukocyte Reduction Filter for red blood Cells



# Usage Scenarios

Type	Whole Blood	Red blood cell concentrate	Frozen plasma	Platelet concentrate	Cryoprecipitate
Single	●				
Double		●	●		
Triple		●	●	●	●
Quadruple		●	●	●	●
Leukocyte Reduction SYSTEM for whole Blood		Red blood cell concentrate of reduce leukocytes	frozen plasma of reduce leukocytes		cryoprecipitate of reduce leukocytes
In-line Triple Blood Bag	●		●		
In-line Quadruple Blood Bag	●		●		●

High-quality blood bags for collecting and processing whole blood and storing blood components

