

Top and Bottom Blood Bag System With Integral Leukocyte Filter for Red Blood Cells Technical Card



Product Name	Top and Bottom Blood Bag System With Integral Leukocyte Filter for Red Blood Cells					
Description	Blood bag system containing citrate phosphate dextrose (CPD) anticoagulant and saline, adenine, glucose-mannitol (SAGM-2) additive solution with an integral leukocyte filter for red blood cells					
Manufacturer	Terumo Penpol Private Ltd., Puliyarakonam, Thiruvananthapuram, India, 695 573					
EC Representative	Terumo BCT Europe N.V., Ikaroslaan 41, 1930 Zaventem, Belgium					
Classification	Class IIb (MDD 93/42/EEC amended by 2007/47/EC)					
Sterilization	Steam sterilization					
Storage conditions	 Avoid excessive heat and direct sunlight. Protect from freezing. Store unused sets between 2 °C and 35 °C. 					
Shelf life	 When stored under the specified conditions: 24 months in the original unopened aluminum pouch 15 days after opening the original aluminum pouch 					
Conformities	 ISO 9001:2015 ISO 13485:2016/EN ISO 13485:2016 ISO 14001:2015 ISO 3836-1:2019 ISO 3826-3:2006 					

General Features

Filter	■ BioElex RCC Filter A2BG0130
-	
Plastic	Polyvinyl chloride (PVC) with DEHP
Surface	Embossed surface
Needle	 Triple-bevel-cut needle with ultra-thin wall design Sand-blasted and silicon-lubricated cannula surface
Tubes	 Embossed surface Unique sequence of numbers for identification Compatible with Terumo Blood and Cell Technologies sterile connection devices
CLIKTIP [®] valve	 Frangible connector that is opened by a double-bend movement Makes an audible "click" sound when opened Large inner diameter
Mold	 Bag design with round corners
Outlets	 Long-neck inner tube Tube dimension and diaphragm position are designed for spikes according to ISO 1135-4
Labels	 Easy to write on Tamper-evident Single- or double-color graphics Comply with ISBT guidelines Pre-printed with solution contents and bag type
Barcode system	 ISBT 128 barcodes on bag labels GS1-128 barcodes on secondary packing and shipping carton
Single bag set	 Blood bags are sterilized in a polyester cast polypropylene over-wrap
Aluminum pouch	 Airtight aluminum pouch
Quality controls	 Physical, chemical, and biological tests of materials and final products comply with ISO 3826-1:2019, USP and IP standards

Materials

Component	Material
Bag sheet	Extruded polyvinyl chloride (PVC) (DEHP)
Tubes	Extruded PVC (DEHP)
Needle cannula	Stainless steel
Needle hub	Molded PVC
Needle protector	Inner: Molded PVC Outer: Molded polypropylene (PP)
Needle injury protector (NIP)	Molded PP
Outlet ports	Molded PVC
CLIKTIP valve cover	Molded PVC
CLIKTIP valve body	Molded polycarbonate (PC)
Y connector	Molded PVC
Sampling arm female luer	Molded PC
Sampling arm cap	Synthetic rubber
Sampling needle	PC hub/stainless steel needle/ isoprene sheath
Holder	Molded PP
Pre-donation sampling bag	Extruded PVC
Clamp	Molded polyacetal
Filter housing	Soft shell, PVC (DEHP)
Filter material	Non-woven polyester fiber
Primary packaging (individual wrap foil)	Polyester cast PP
Secondary packaging (aluminum pouch)	Multilayered laminated aluminum foil
Shipping box	Corrugated paper carton

Production Flow (simplified)

Raw materials
Sheet and tube extrusion
Bag sealing
Bag assembly/
filter assembly
Labeling
Bag filling/
needle assembly
Coiling and packaging
(primary packaging)
Pre-inspection
Sterilization
Drying
Final inspection
Aluminum pouch packaging
(secondary packaging)
Shipping packaging
Stock

Blood Component Storage

Component	Storage Condition
Whole blood storage	CPD up to 21 days at 4 $^{\circ}C \pm 2 ^{\circ}C$
Red blood cell concentrate	CPD/SAGM- 2 up to 42 days at 4 $^{\circ}$ C \pm 2 $^{\circ}$ C
Platelet concentrate	5 days at 22 $^\circ\text{C}\pm2$ $^\circ\text{C}$ with slow and continuous agitation

Product Range

Product Code	Configuration	Packaging Quantity	Collection Volume	CPD Volume	SAGM-2 Volume	Transfer Bag 1	Transfer Bag 2	Transfer Bag 3	Transfer Bag 4
PB-4RO456J0Y	Quadruple TAB blood bag with integral filter for red blood cells	6 aluminum pouches containing 3 blood bag sets each	450 mL	63 mL	100 mL	Empty transfer bag suitable for storage of plasma	Empty transfer bag	SAGM-2 transfer bag suitable for storage of red blood cells	_
PB-4R0356J0Y	Quadruple TAB blood bag with integral filter for red blood cells	6 aluminum pouches containing 3 blood bag sets each	350 mL	49 mL	80 mL	Empty transfer bag suitable for storage of plasma	Empty transfer bag	SAGM-2 transfer bag suitable for storage of red blood cells	_
PB-5RO456JOY	Penta TAB blood bag with integral filter for red blood cells	6 aluminum pouches containing 3 blood bag sets each	450 mL	63 mL	100 mL	Empty transfer bag suitable for storage of plasma	Empty transfer bag suitable for 5-day platelet storage	Empty transfer bag	SAGM-2 transfer bag suitable for storage of red blood cells
PB-5RO356J0Y	Penta TAB blood bag with integral filter for red blood cells	6 aluminum pouches containing 3 blood bag sets each	350 mL	49 mL	80 mL	Empty transfer bag suitable for storage of plasma	Empty transfer bag suitable for 5-day platelet storage	Empty transfer bag	SAGM-2 transfer bag suitable for storage of red blood cells

* Top-and-bottom configuration







Technical Features

Product Code	Spec	PB- 4RO456JOY	PB-4RO356J0Y
Bag type	Config	Top-and-bottom processing bag with a le	ukocyte filter for red blood cells
Donation volume	mL	450	350
Primary/transfer bags nominal capacity	mL	450/450/450/450	350/350/350/350
Needle size Needle length	Gauge Length	Exposed length 35+2/-0mm	
Primary had (CPD)	Internal Length	180 mm ± 5 mm	160 mm ± 5 mm
Phillid y Dag (CPD)	Internal Width	120 mm ± 3 mm	120 mm ± 3 mm
Transfer hag 1	Internal Height	180 mm ± 5 mm	145 mm ± 5 mm
	Internal Width	120 mm ± 3 mm	120 mm ± 3 mm
Transfer bag 2	Internal Length	180 mm ± 5 mm	145 mm ± 5 mm
T () 0		120 mm ± 3 mm	120 mm ± 3 mm
Iransfer bag 3 (SAGM-2)		120 mm + 2 mm	145 mm ± 2 mm
	Internal width	120 mm ± 3 mm	120 mm ± 3 mm
Product Code	Spec	PB-5RO456JOY	PB-5RO356JOY
Bag type	Config	Top-and-bottom processing bag with a le	ukocyte filter for red blood cells
Donation volume	mL	450	350
Primary/transfer bags nominal capacity	mL	450/450/450/450	350/350/350/350/350
Needle size Needle length	Gauge Length	Exposed length 35+2/-0mm	
Drimon (bog (CDD)	Internal Length	180 mm ± 5 mm	160 mm ± 5 mm
Phillid y Dag (CPD)	Internal Width	120 mm ± 3 mm	120 mm ± 3 mm
Transfor bag 1	Internal Height	180 mm ± 5 mm	145 mm ± 5 mm
ITalisiel Dag I	Internal Width	120 mm ± 3 mm	120 mm ± 3 mm
Transfer bag 2	Internal Height	180 mm ± 5 mm	145 mm ± 5 mm
	Internal Width	120 mm ± 3 mm	120 mm ± 3 mm
Transfer hag 3	Internal Length	180 mm ± 5 mm	145 mm ± 5 mm
	Internal Width	120 mm ± 3 mm	120 mm ± 3 mm
Transfer bag 4 (SAGM-2)	Internal Height	180 mm ± 5 mm	145 mm ± 5 mm
	Internal Width	120 mm ± 3 mm	120 mm ± 3 mm
Tubing Specs		PB-4RO456J0Y/PB-4RO356J0Y	PB-5RO456J0Y/PB-5RO356J0Y
Tube section			
	Length (mm)	250 ± 30	250 ± 30
A	No. of tube segments	0	0
D	Length (mm)	210 ± 30	210 ± 30
В	No. of tube segments	0	0
C	Length (mm)	1,070 ± 50	1,070 ± 50
c	No. of tube segments	12	12
D	Length (mm)	450 ± 30	450 ± 30
-	No. of tube segments	0	0
E	Length (mm)	320±30	320 ± 30
	No. of tube segments	0	
F	Length (mm)	675±50	675±50
	l ength (mm)	9 250 + 30	9 250 + 30
G	No. of tube segments	0	0
	Length (mm)	600 ± 30	300 ± 30
Н	No. of tube segments	7	3
1	Length (mm)	_	300 ± 30
	No. of tube segments	-	4
	Length (mm)	-	300 ± 30
,	No. of tube segments	-	4
Donor and transfer tubes	External diameter (mm)	4.4 ± 0.1	4.4 ± 0.1
	Internal diameter (mm)	2.95 ± 0.05	2.95 ± 0.05
Red blood cell transfer tube "D"	External diameter (mm)	5.0±0.1	5.0 ± 0.1
	Internal diameter (mm)	3.8 ± 0.1	3.8 ± 0.1

Code Structure

Р	в	-	5	R	ο	4	5	6	J	0	Y
1	2	3	4	5	6	7	8	9	10	11	12

Position	Description
1, 2, 3	PB- = Terumo Penpol blood bag
4	Bag configuration (1 = single, 2 = double)
5, 6	Anticoagulant and/or additive solution (see below)
7, 8	First 2 digits of the collection volume $(35 = 350 \text{ mL} \text{ and } 45 = 450 \text{ mL})$
9	Second digit of the gauge of the needle $(6 = 16 \text{ G})$
10	Type of label (see below)
11	Sampling or safety feature(s) (see next page)
12	Specific fe ature (Y = standard bag)

Lot Number Structure

1	0	В	1	5	X	4
1	2	3	4	5	6	7

Position	Description
1, 2	Day of solution filling (10 = 10^{th} of the month)
3	Month of production represented by a letter from A to L (A = January, B = February)
4, 5	Last 2 digits of the year of production (15 = 2015)
6	Production line (X or Y)
7	Serial number of the batch that day (1 = first batch produced that day, 4 = fourth batch produced that day)

Solution Types

Code (RO)	Description
RO	Anticoagulant: CPD Additive solution: SAGM-2 (AS-5)*

Label Types

Code	Description
J	For use in India

Composition of Solutions

Solution	Ingredients	g/100 mL
CPD	Citric acid monohydrate IP	0.327
	Sodium citrate dihydrate IP	2.630
	Sodium dihydrogen phosphate dihydrate IP	0.251
	Dextrose anhydrous equivalent to Dextrose monohydrate IP	2.550
	Water for injection IP	qs
SAGM- 2 (AS-5)*	Sodium chloride IP	0.877
	Adenine IP	0.030
	Dextrose anhydrous equivalent to Dextrose monohydrate IP	0.900
	Mannitol IP	0.525
	Water for injection IP	qs

Sampling and Safety Features



Sampling and Safety Feature Configurations

Code	NIP	SA	HOLDER	PDSB
0	\checkmark	\checkmark	\checkmark	\checkmark

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**Due to continual development, specifications are likely to change without prior notice.
**For distribution in India Only



Terumo Blood and Cell Technologies is a medical technology company. Our products, software and services enable customers to collect and prepare blood and cells to help treat challenging diseases and conditions. Our employees around the world believe in the potential of blood and cells to do even more for patients than they do today. **TERUMOBCT.COM**

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