



TROGE

HAMBURG



TRO-DONEX 1/2/3/4/safety

BLOOD BAG SYSTEMS

1 Safety Needle Shield

Prevents accidental needle stick injuries, provides safety during and after phlebotomy, ensures safe and easy needle discard.

2 Dry Donor Line

Maintains integrity of the needle by reducing acidic affect of citrate on venipuncture site.

3 Kink Resistant Tubing

Soft, frosted and flexible with unique identification number at intervals of 10 cm.

4 Pre-sampling Bag (safety feature only)

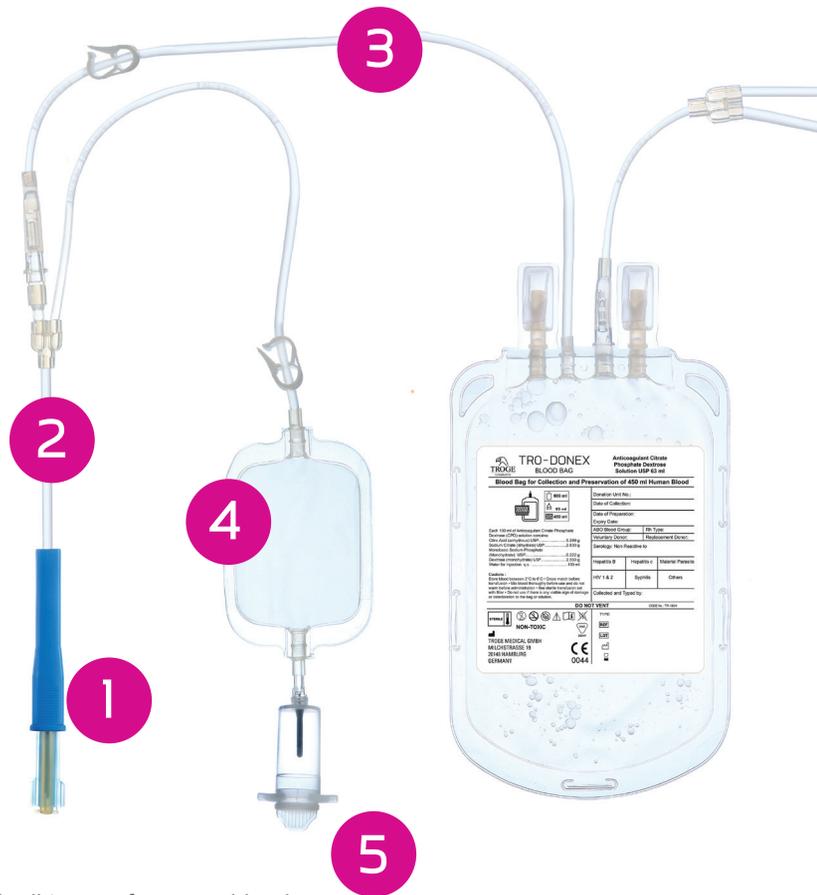
Pre-donation sampling device (PDS) allows initial blood to be diverted and sampled for infectious marker tests. Prevents skin particles and associated bacteria and hair follicles entering the main bag.

5 Attached Luer Adapter (safety feature only)

Ensures safe in-line multiple sampling. Compatible with all types of vacuum blood collection tubes. Prevents needle stick injuries.

6 Bag Material

PVC sheet with DEHP as plasticizer complying with ISO standards for blood bags, has good transparency leading to accurate and easy monitoring during collection, component separation and transfusion. Ideal for Red cells, Plasma and Platelets storage. Some blood bag systems have special PVC transfer bags with the plasticizer TOTM for longer storage of Platelets up to 5 days.



LEUCOCYTE DEPLETION FILTER



Blood Bag with high-efficiency Leucocyte filter for a simple way to separate Leucocytes and Red Blood Cells.

- For separation of Leucocytes depleted RBC, Plasma and Platelet
- minimal volume loss leads to better Red Blood Cell recovery
- soft housing of filter ensures safety of Blood Bag during centrifugation
- no sterile connection required during process control, eliminates chances of process associated errors
- simple process control, easy to implement into routine procedures
- transparent housing helps in visual monitoring during filtration

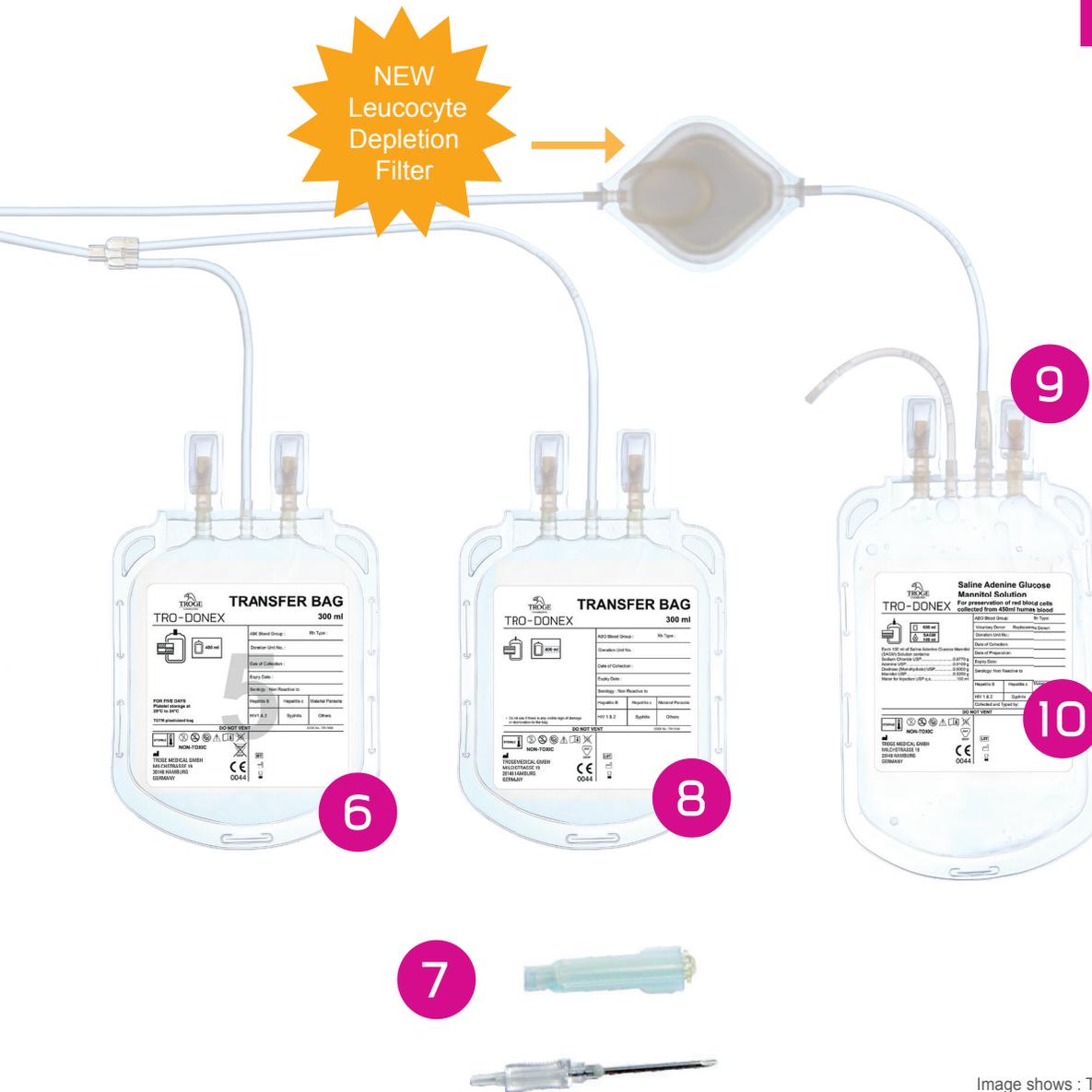


Image shows : TRO-DONEX 4 safety + LC filter (Ref. No. 92105)

7 Needle with Tamper Proof Needle Cover

Siliconised ultra thin walled, 16G, sharp Japanese needle assures smooth and atraumatic venipuncture. Needle protective cover is made of two parts. Outer part is made up of translucent blue colour hard polypropylene to maintain the integrity of the needle during storage and transportation. Inner part is made of translucent PVC that fits with the needle hub providing effortless removal of the cover.

8 Rounded Shape

minimizes loss of blood components during separation and transfusion.

9 Break away Valve

Easy to break for smooth transfer of blood components and additive solution (not present in single blood bag systems).

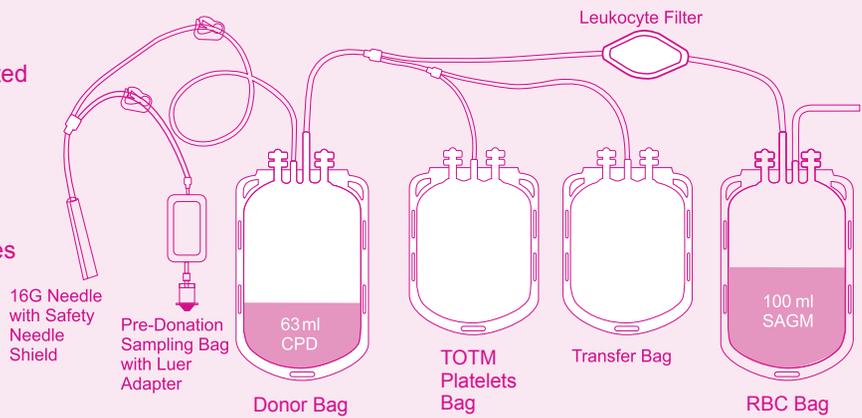
10 Tamper Evident Label

Allows easy marking/writing and cannot be removed or tampered with.

BAG SYSTEMS

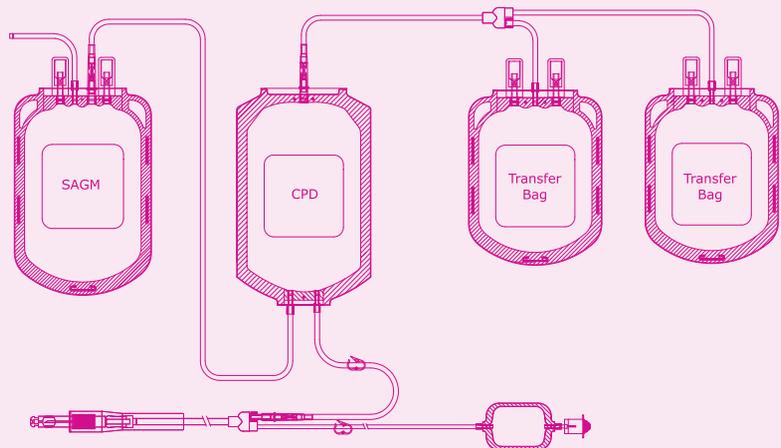
CPD-SAGM with TOTM BAG

- Allows larger volume of plasma to be collected and hence better yield of components like platelets, frozen plasma and cryoprecipitates.
- High level of ATP in red blood cells as red cell viability is increased because of SAGM solution.
- Maintains 80% post-transfusion RBC survival rate.
- Fewer incidences of transfusion related reactions.
- SAGM solution preserves RBC up to 42 days
- Anticoagulant CPD solution preserves whole blood up to 35 days
- TOTM bag for storage of platelets up to 5 days



CPD-SAGM in TOP and BOTTOM extraction bag system

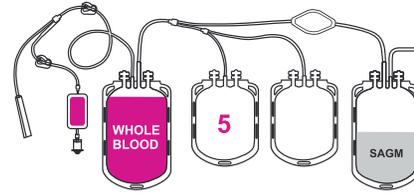
- Available in triple and quadruple blood bag systems.
- Anticoagulant CPD solution preserves whole blood up to 35 days. SAGM solution preserves RBC up to 42 days.
- Quality blood components in form of red blood cells, plasma and platelets from collected whole blood.
- Reduced cost for blood components preparation.



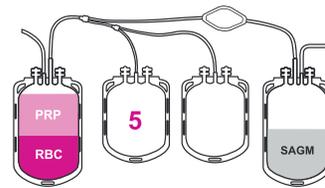
Process Diagram:



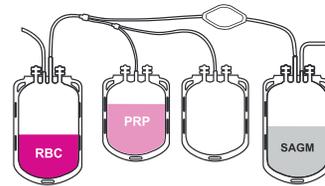
Collect whole blood from donor



Centrifuge whole blood with soft spin to get PRP and RBC



Transfer Platelet Rich Plasma (PRP) to TOTM bag

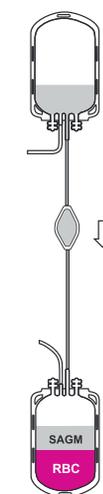


After transferring PRP, separate TOTM and empty transfer bag to process Platelet Concentrate (PC) and Platelet Poor Plasma (PPP)



(a) Empty the SAGM bag by transferring the SAGM solution to RBC bag for priming of filter as shown

(b) After mixing of RBC with SAGM invert the position of bags, as shown to obtain Leuko-depleted RBC



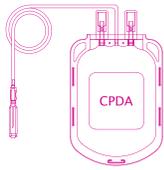
(a) Priming



(b) Filtration

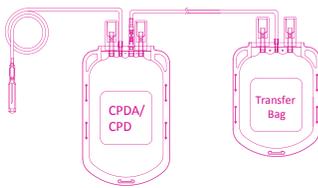
Blood Bag Systems

TRO-DONEX 1



collection and storage of whole blood

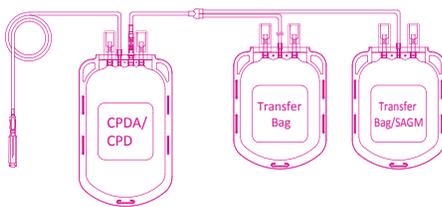
TRO-DONEX 2



collection and storage of whole blood further separated into:

- Red Blood Cells
- Plasma

TRO-DONEX 3



collection and storage of whole blood further separated into:

- Red Blood Cells
- Plasma
- Platelets

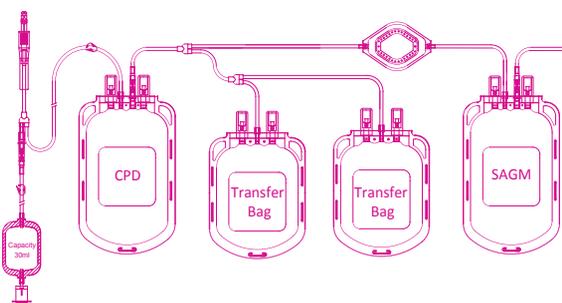
TRO-DONEX 4



collection and storage of whole blood further separated into:

- Red Blood Cells
- Plasma
- Platelets
- Cryoprecipitate

TRO-DONEX 4
safety and LC filter



collection and storage of whole blood further separated into:

- Leuco-depleted Red Blood Cells
- Plasma
- Platelets

	Donor Bag Volume	Features		Anti-Coagulation and Preservative			Ref. No.
		Safety	TOTM Bag	CPDA	CPD	SAGM	
TRO-DONEX 1 (paediatric)	250 ml	-	-	35 ml	-	-	92000
TRO-DONEX 1	350 ml	-	-	49 ml	-	-	92002
TRO-DONEX 1	450 ml	-	-	63 ml	-	-	92003
TRO-DONEX 1 safety	450 ml	✓	-	63 ml	-	-	92088
TRO-DONEX 2	450 ml	-	-	63 ml	-	-	92006
TRO-DONEX 2 safety	450 ml	✓	-	63 ml	-	-	92044
TRO-DONEX 3	450 ml	-	-	63 ml	-	-	92009
TRO-DONEX 3	450 ml	-	-	-	63 ml	100 ml	92037
TRO-DONEX 3 TBB	450 ml	-	-	-	63 ml	100 ml	92042
TRO-DONEX 3 safety	450 ml	✓	-	63 ml	-	-	92080
TRO-DONEX 3 safety	450 ml	✓	-	-	63 ml	100 ml	92079
TRO-DONEX 3 safety	450 ml	✓	✓	-	63 ml	100 ml	92086
TRO-DONEX 4	450 ml	-	-	63 ml	-	-	92012
TRO-DONEX 4	450 ml	-	-	-	63 ml	100 ml	92026
TRO-DONEX 4 safety	450 ml	✓	-	63 ml	-	-	92089
TRO-DONEX 4 safety	450 ml	✓	✓	-	63 ml	100 ml	92103
TRO-DONEX 4 safety TBB	450 ml	✓	✓	-	63 ml	100 ml	92104
TRO-DONEX 4 safety + Leuco-depletion Filter TBB	450 ml	✓	✓	-	63 ml	100 ml	92105
TRO-DONEX 4 safety + Leuco-depletion Filter	450 ml	✓	✓	-	63 ml	100 ml	92106

GENERAL INFORMATION

- The reference table on page 7 lists the standard blood bag sizes preferred by most blood banks, other sizes are available on request.
- Different anticoagulant and preservative solutions according USP/EP:
 - CPDA: Citrate-Phosphate-Dextrose-Adenine-Solution (also known as CPDA-1 Solution)
 - CPD: Citrate-Phosphate-Dextrose-Solution
 - SAGM: Saline-Adenine-Glucose-Mannitol-Solution
- Transfer bags have a nominal volume of 400 or 600 ml.
- Our blood bags comply with the respective part of EN ISO 3826 standard.
- Shelf life of the blood bags is 3 years
- Sterilisation method: steam
- Packing: each blood bag individually packed in a special multi layered pouch of which multiples are packed in a moisture barriered aluminium pouch. 3, 4, 5 or 6 blood bags in an aluminium pouch, depending on the size and type
- Triple and Quadruple systems available in two versions:
Top and Top Blood Bag System (standard version) or Top and Bottom Blood Bag System (TBB)
- The material of the blood bags is Polyvinylchlorid (PVC) with different plasticizers:
standard bags with Di(2-ethylhexyl) phthalate (DEHP)
special transfer bags with Trioctyl Trimellitate (TOTM) upon request

CARING FOR GLOBAL HEALTH