CardioGRAFT®

Cryopreserved Bio-Implants for Cardiac Procedures

by LifeNet Health®

Thaw & Dilution Instructions
Cardiac Bio-Implant
Thaw & Dilution Instructions

Required Sterile Supplies:
- Two (2) major basins (5 liter capacity or greater)
- Clamp
- Scissors
- 1 liter room temperature D5LR Sterile Solution (Lactated Ringers w/ 5% Dextrose)
- 2 liters warm 0.9% normal saline minimum (additional warm and room temperature saline may be required to maintain thawing temperature of 37°C to 42°C).
- Thermometer

Step 1
Non-Sterile Team Member:
Using insulated gloves, retrieve/open the boxed graft and inspect the pouch to ensure its integrity. Do not use the graft if the packaging is damaged.

Step 2
Replace the graft in the box, leave the lid open. Keep at room temperature for 7 minutes.

Step 3
Remove graft from box, open outer peel pack and present to Sterile Team Member.

Step 4
Sterile Team Member:
Double glove and grasp inner pouch by sealed edge with a clamp and remove from outer peel pack.
**NOTES:**

- Use aseptic technique at all times; prepare each allograft separately.
- Use sterile thermometer or sterile warmer to maintain a temperature of 37–42°C throughout the thawing process.
- **If implantation is delayed,** cover basin with sterile towel and place basin in larger basin of sterile slush.

---

**Step 5**
Lower inner pouch into 5 liter basin containing minimum of 2 liters warmed (37–42°C) sterile saline solution.

**Step 6**
Gently agitate pouch periodically 5-7 minutes until ice is melted.

**Step 7**
When graft is thawed, dry outside of pouch and open with scissors.

**Step 8**
Non-Sterile Team Member: Pour 1 liter room temperature D5LR into second large sterile basin.

**Step 9**
Sterile Team Member: Remove graft with smooth forceps and place into basin of D5LR.

**Step 10**
Discard outer gloves. Allow graft to passively rinse for minimum of 5 minutes. Graft is ready for implantation.
Cardiac

**Valves | CardioGRAFT®**

![Pulmonary Valve](image1)
![Aortic Valve](image2)

**Conduits | CardioGRAFT®**

![Ascending Aorta](image3) (Excised leaflets)
![Thoracic Aorta](image4)
![Pulmonary Artery](image5) (Excised leaflets)

**Repair Grafts | CardioGRAFT®**

![Pulmonary Patch](image6) (Thick/Thin)
![Hemi Pulmonary Artery](image7) (Right/Left)
![Mono Cusp Patch](image8) (Right/Left)
![Mono Cusp Patch](image9)