

Scope:

This Technical Service Bulletin (TSB) addresses the process for sealing tubing on the AXP Processing Bag Set (8-5101) (a Thermogenesis product) utilizing the Model SE470RS Genesis Rapid Seal Tube Sealer and Genesis Seal Jig.

Referenced documents:

- 320168: Verification, Sebra and Genesis Sealer with AXP Freezing Bag
- 380038: AXP System Training Guide

Background:

This TSB is being issued to provide information to customers on good sealing practices and on making proper: 1) freezing bag tube and channel seals and 2) tubing seals on the AXP Processing Bag Set when using the Genesis Sealer and the Genesis Sealing Jig. This TSB is intended to augment and reinforce the troubleshooting instructions in the Genesis Rapid Seal Tube Sealer User’s Manual and/or the AXP System Training Guide.

Action:

Problematic sealing of the tubing on the AXP Processing Bag Set can be attributed to sealing surfaces not being completely dry and/or unclean, tension on the tubing and/or improper placement of the freezing bag in the sealing jig. The following procedure will help to ensure proper sealing of the AXP Processing Bag Set.

Procedure:

Good Sealing Practices
1. Contamination and moisture are a leading cause of bad seals. It is important that all sealing surfaces, sealing equipment and work surfaces are kept clean and dry. Any moisture or contamination transferred to the sealing surfaces can cause bad seals.
2. Before starting assure that gloves are clean and dry. Any contamination or moisture on gloves can be transferred to the tubing or freezing bag and cause sealing issues.

Good Sealing Practices

3. Always clean the sealer head with alcohol before sealing. Moisture or contamination can cause leaks after sealing. Even thin films of contamination or moisture that cannot be seen can cause sealing issues. After cleaning with alcohol, wipe with a dry swab to remove all moisture.



4. Always clean the tubing or freezing bag channels with alcohol before sealing. Moisture or contamination can cause leaks after sealing. Even thin films of contamination or moisture that cannot be seen can cause sealing issues. After cleaning with alcohol, wipe with a dry wipe to remove all moisture.

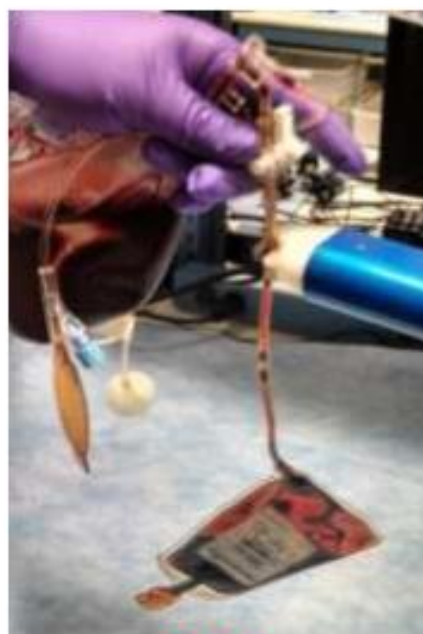


Good Sealing Practices

5. To avoid leaks in the tubing there should be no tension on the tubing while sealing. The tubing should be lying on the table and the segment to be sealed should be held straight with no tension. Do not hold the bag up while sealing.






GOOD








BAD




6. Always hold the sealing head closed 3-5 seconds **after the sealer head light goes out** to allow the tube to seal properly. Releasing the head too soon can cause leaks.


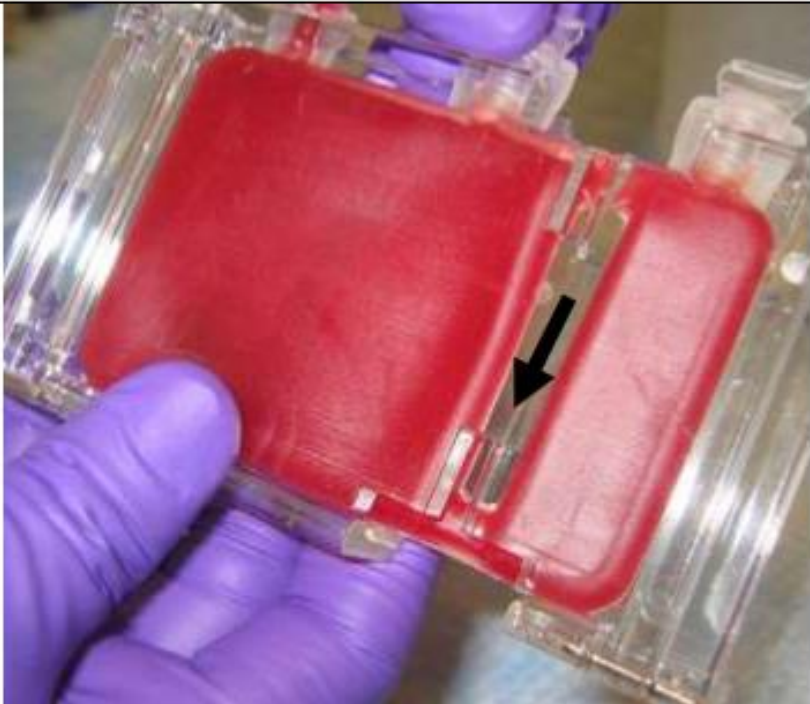
Freezing Bag Tube and Channel Sealing

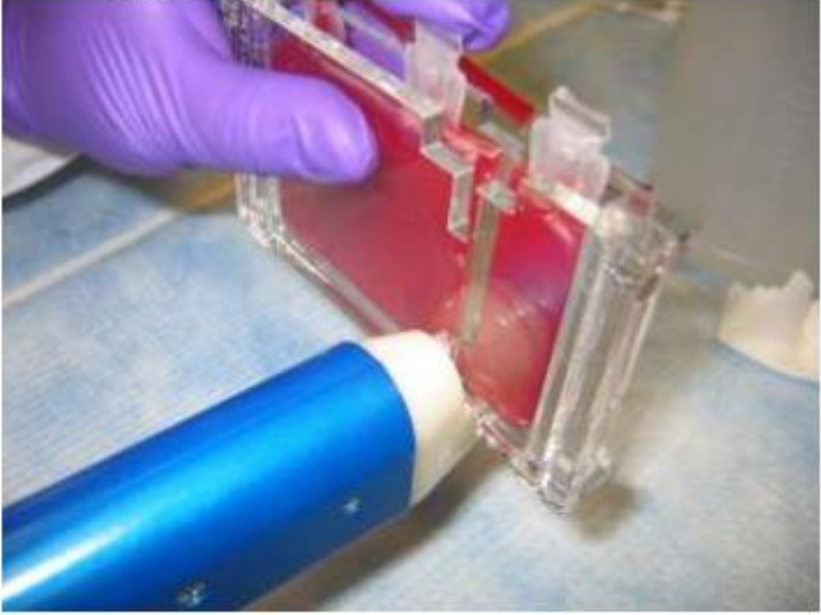
Step	Procedure	
1.	Sealer Head should be cleaned before each bag set is sealed. Spray 70% isopropyl alcohol on a swab.	
2.	Clean the sealer head with the swab.	
3.	Wipe the sealer head with a dry swab to remove any moisture.	

Step	Procedure	
4.	Apply 70% isopropyl alcohol to a wipe.	
5.	Wipe the freezing bag tube to be sealed.	
6.	Wipe with a dry wipe to remove any moisture.	



Step	Procedure	
7.	<p>Place the bag in the Genesis sealing jig and orient the sealer as shown to make folding the aliquot tube in the canister easier.</p> <p>The bag and tube should lie on the table. This will assure that there is no tension on the tube while sealing.</p> <p>Squeeze the trigger and hold the bag and tube steady while the sealer makes the seal. Hold the sealer closed for 3 to 5 seconds after the light goes out.</p>	
8.	<p>With the tube and bag set still lying on the table, seal the aliquot segments.</p> <p>Orient the sealer head as shown to make folding the tube in the freezer canister easier.</p>	




Step	Procedure	
9.	Apply isopropyl alcohol to a wipe.	
10.	Clean the freezing bag channels with the isopropyl alcohol wipe.	
11.	Wipe the freezing bag channels with a dry wipe to remove any moisture.	


Step	Procedure	
12.	<p>The top channel must be sealed outside the sealing jig.</p> <p>Position the sealer head in the center of the channel. Position the sealer head so that the bag port flange is over the white plastic and against the metal sealing bar as shown. This will help center the sealer head on the channel.</p> <p>Squeeze the trigger and hold the bag steady while the sealer makes the seal. Hold the sealer closed for 3 to 5 seconds after the light goes out.</p>	
13.	<p>Place the freezing bag into the sealer jig.</p> <p>Center the bottom channel in the sealer head guide (shown by the black arrow).</p>	

Step	Procedure	
14.	<p>While holding the freezing bag in place, insert the sealer head into the head guide.</p> <p>Squeeze the trigger and hold the bag steady while the sealer makes the seal. Hold the sealer closed for 3 to 5 seconds after the light goes out.</p>	

Tube Segment Sealing

Step	Procedure	
	Before starting, assure that gloves are clean and dry. Any contamination or moisture on gloves can be transferred to the tubing or freezing bag and cause sealing issues.	
1.	Wipe the sealer head with a dry swab to remove any moisture.	
2.	Apply 70% isopropyl alcohol to a wipe	

Step	Procedure	
3.	Wipe the tube to be sealed	
4.	Wipe with a dry wipe to remove any moisture.	
5.	<p>Position the sealer on the tube with the bagset lying on the table.</p> <p>Hold the tubing straight and without tension as shown.</p> <p>Squeeze the trigger and hold the tube steady while the sealer makes the seal. Hold the sealer closed for 3 to 5 seconds after the light goes out.</p>	

Step	Procedure	
6.	<p>To seal the tube between the stopcock and F-T fitting, position the sealer head as shown.</p> <p>It is important to position the sealer head in the center of the tube as shown. Positioning too close to either tube connector will cause a leak.</p> <p>The bagset should be lying on the table so that there is no tension on the tube while sealing.</p>	

Contact Information:

If you have any questions, contact Concessus S.A. Technical Service at (+351) 21 385 53 70 (Lisbon, Portugal) or send na email to: mjoao.horta@Concessus.pt for assistance.