



Texas Tech University

SOP – Samples from Bovine Semi-Membranosus Post-Mortem

Required Equipment

1. Knives
2. Markers
3. Alligator clip rod
4. Chain Apron
5. Chain glove
6. Cooler
7. Cut Glove
8. Dry Ice
9. Duck Tape
10. Rubber Gloves
11. Hard Hat
12. Meat Hook
13. Liquid Nitrogen
14. Liquid Nitrogen Tank
15. Scabbard
16. Styrofoam Cooler that fits in Cooler
17. Whirl Pack plenty for all samples plus
18. Hair Nets
19. Ear Plugs
20. Safety Glasses
21. Frocks
22. Cotton Gloves
23. Aprons
24. Tongs
25. Small Ice Bucket
26. Clipboard
27. Data Sheets
28. Pens

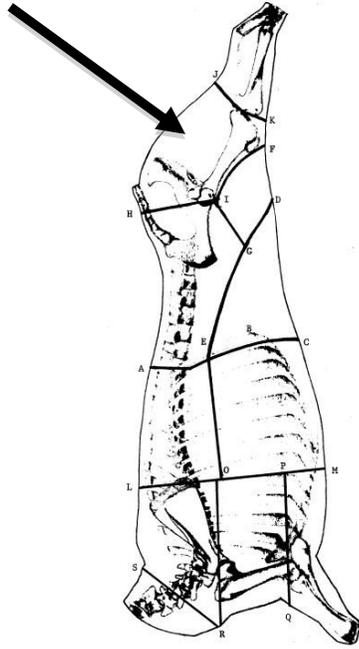
Procedures

Prior to Harvest

1. Obtain animals ID (ear tag).
2. Number bags in numerical order (starting with 1, 2, 3, etc) for samples. Make duplicate bags.

Day of Harvest

1. Cover bottom of cooler with 3" of Dry ice
2. Set up collection station 100 HD prior to sample cattle.
3. Keep bags in order to assure sample Identify.
4. Person 1 correspond animal ID to sample bag ID; record on data sheet
5. Person 2 obtain sample within 10 minutes of exsanguination from the semi-membranosus avoiding the round cap.
6. Person 2 catch the semi-membranosus with the meat hook, and cutting away; cut a sample at least 2'x2'.
7. Person 3 tear the top of the whirl-pak bag and hold it open for person 2 to place sample inside.



8. Person 3 hold the sample with the whirl-pak pulling it off of the meat hook (do not touch the sample with hands or gloves).
9. Person 3 push the sample to the bottom of the bag, flatten the sample, and roll tightly upward toward the opening of the sample bag and shut with yellow tabs.
10. Person 3 clip the sample bag on the alligator clip rod and dip in liquid nitrogen for 5 seconds.
11. Person 3 remove sample from liquid nitrogen and place into a second whirl-pak, then drop it into the cooler with dry ice.
12. Person 2 remove any visible blood/meat and dip knife and meat hook in 180°F water for next sample for food safety purposes.
13. Repeat until all samples have been completed.
14. After all samples have been collected fill cooler with Dry ice (making sure all samples are covered).
15. Once cooler is full of Dry ice use duct tape and tape around the lid of the cooler to create a seal.