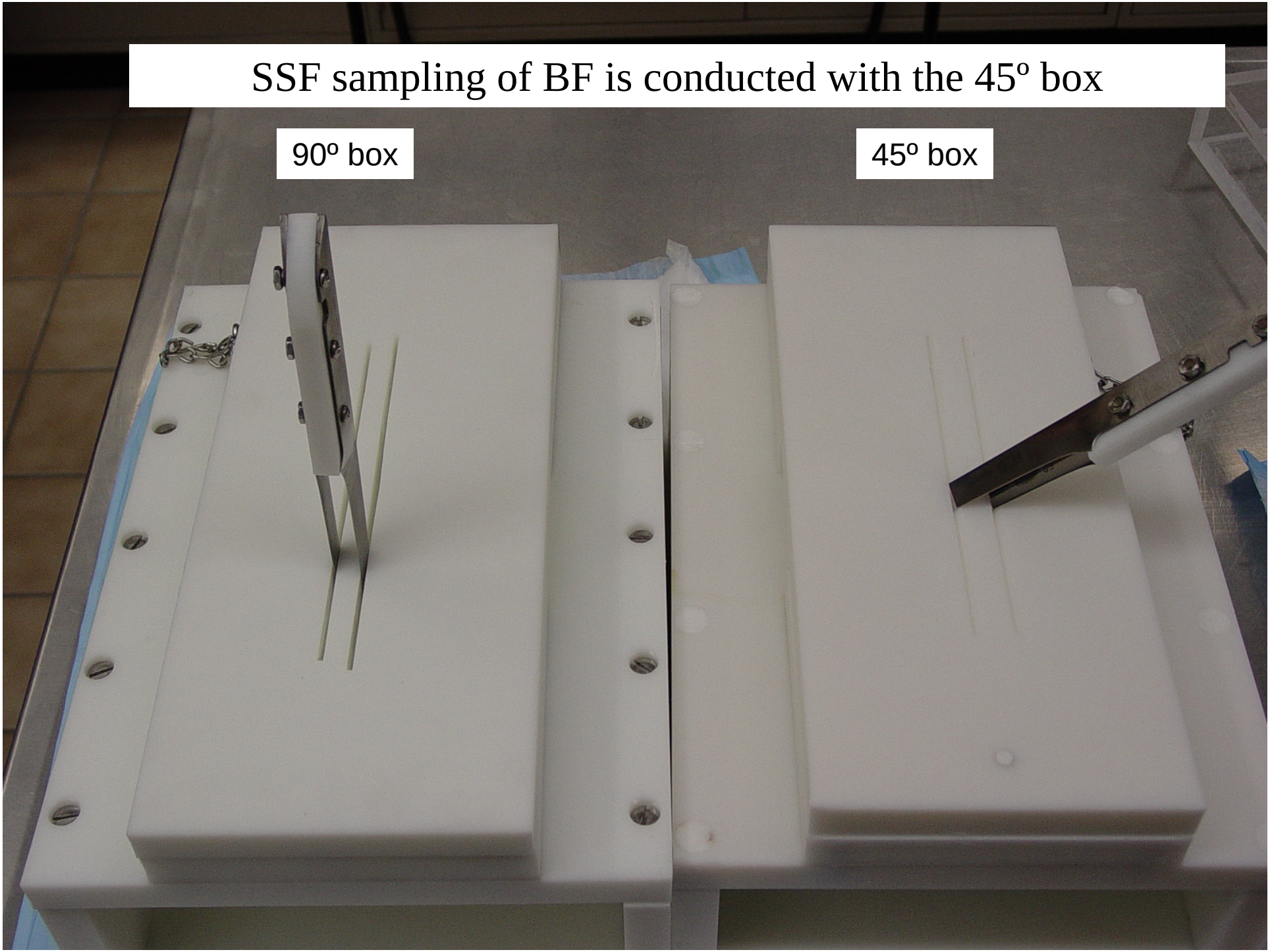
USMARC Slice Shear Force Procedure for Beef Biceps femoris long head (BF)

- This project was funded, in part, by The Beef Checkoff.


SSF sampling of BF is conducted with the 45º box
90º box
45º box

On the following slides, a picture of a frozen steak is shown rather than a cooked steak. This was done in order to more clearly show steak orientation. But, slice shear force measurement is conducted on cooked steaks. Steaks are sampled and slice shear force is measured immediately after completion of cooking.

Biceps femoris – Left

BF

Left

Steak 1

Steak 2

Steak 3

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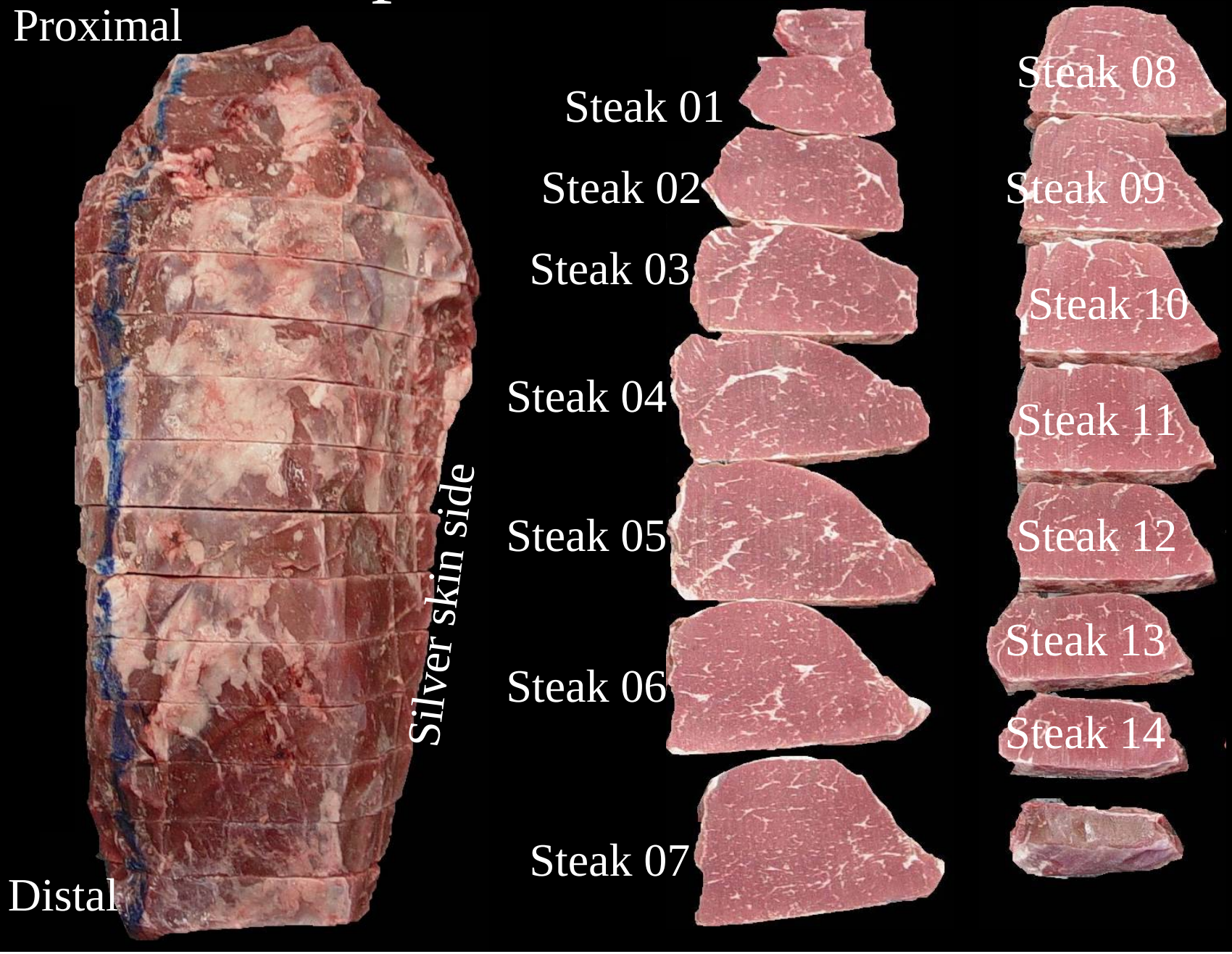
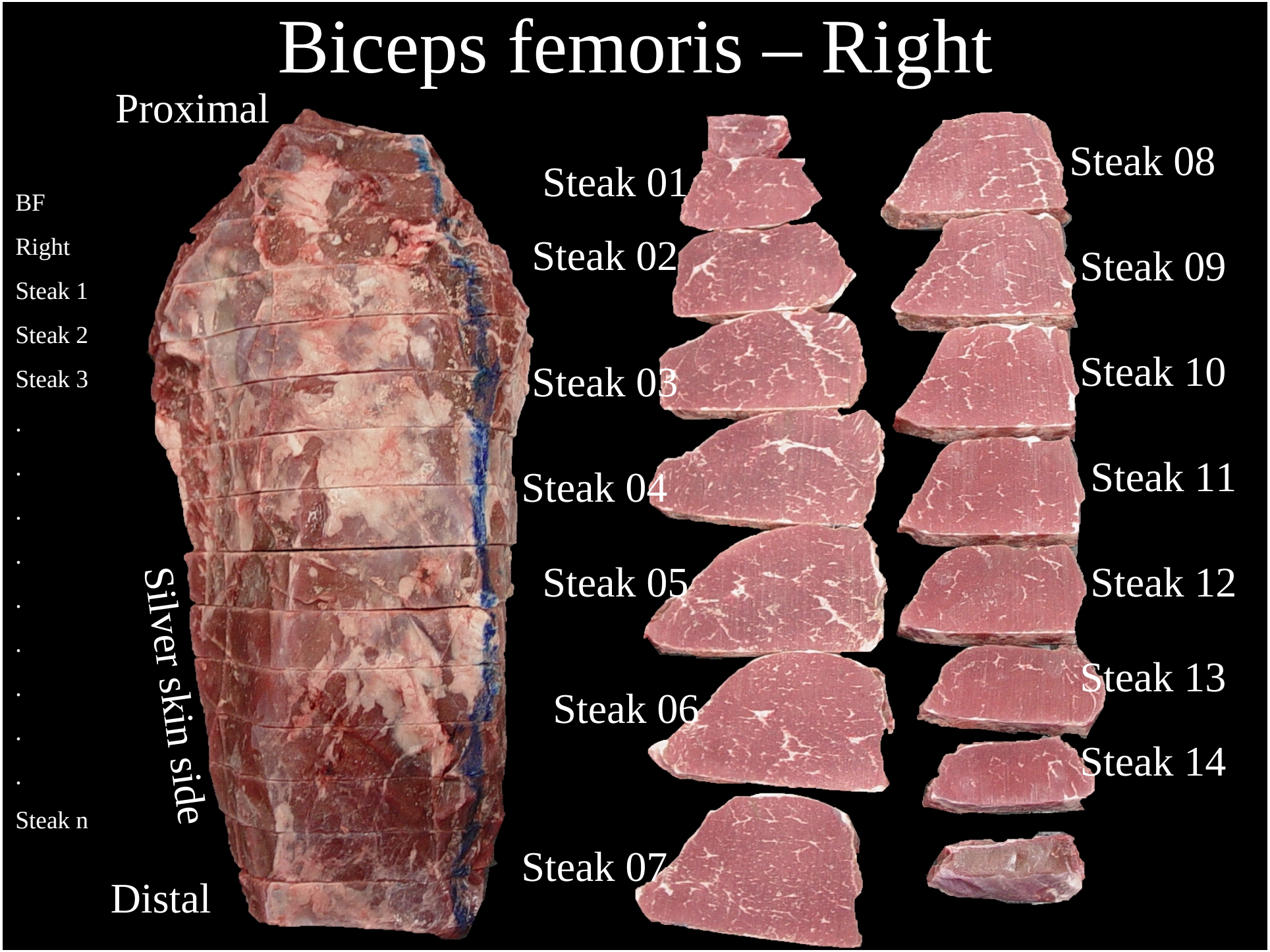
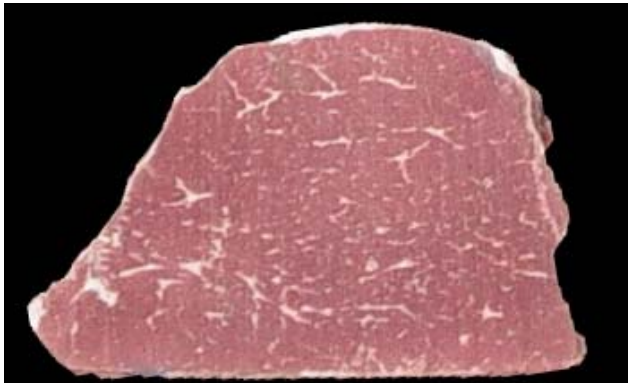
Steak n



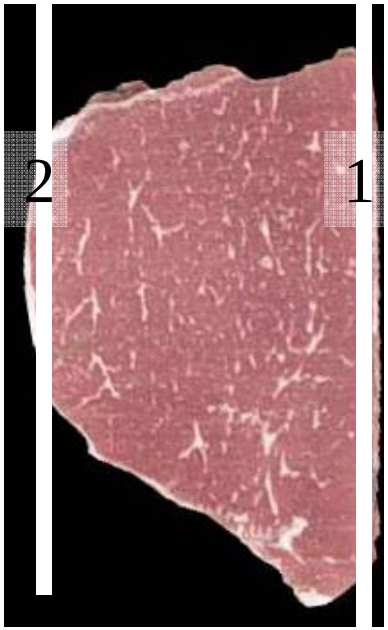
Biceps femoris – Right

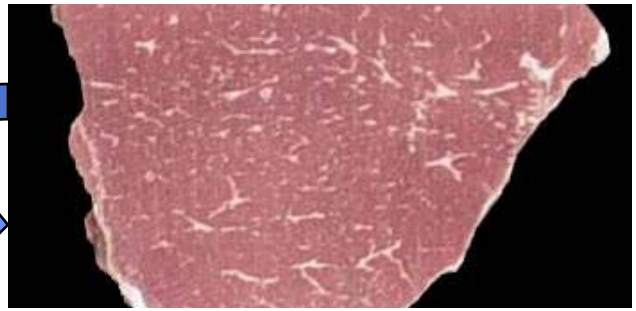


Biceps femoris LEFT

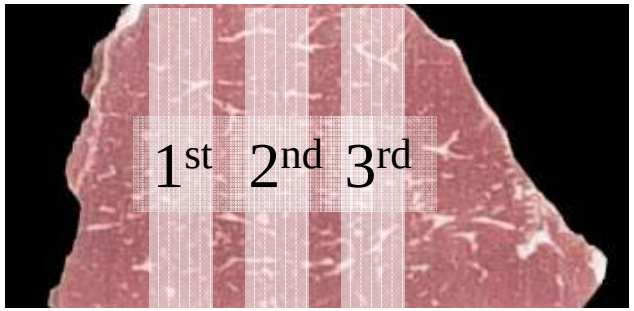


Orient the steak with the blue mark at the top right. Rotate the steak counter clockwise and make cut 1. Place in 5 cm box and make cut 2. Rotate the piece counter clockwise and then flip it over and place it in the 45 degree box. Obtain the 1st slice near the right side (now on the left) of the section. Obtain the 2nd slice near the center. Obtain the 3rd slice near the left (now on the right). Space the slices approximately equally.

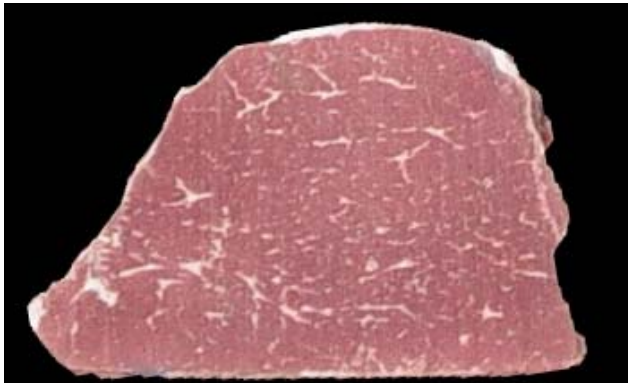




Flip it over



Biceps femoris RIGHT



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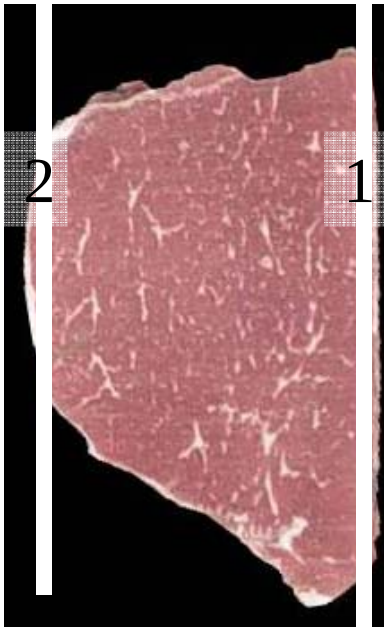

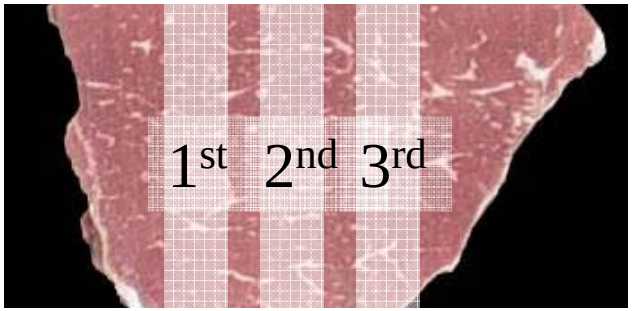

Sample data sheet for BF SSF

Fresh_SSF_Data

Date	Yellow tag ID	Muscle	Location	Slice box	SSF	Notes	DPM
07/01/2009	2001	02_BF	021_Right	45°			15
07/01/2009	2001	02_BF	022_Center	45°			15
07/01/2009	2001	02_BF	023_Left	45°			15
07/01/2009	2002	02_BF	021_Right	45°			15
07/01/2009	2002	02_BF	022_Center	45°			15
07/01/2009	2002	02_BF	023_Left	45°			15
07/01/2009	2003	02_BF	021_Right	45°			15
07/01/2009	2003	02_BF	022_Center	45°			15
07/01/2009	2003	02_BF	023_Left	45°			15
07/01/2009	2004	02_BF	021_Right	45°			15
07/01/2009	2004	02_BF	022_Center	45°			15
07/01/2009	2004	02_BF	023_Left	45°			15
07/01/2009	2005	02_BF	021_Right	45°			15
07/01/2009	2005	02_BF	022_Center	45°			15
07/01/2009	2005	02_BF	023_Left	45°			15
07/01/2009	2006	02_BF	021_Right	45°			15
07/01/2009	2006	02_BF	022_Center	45°			15
07/01/2009	2006	02_BF	023_Left	45°			15
07/01/2009	2007	02_BF	021_Right	45°			15
07/01/2009	2007	02_BF	022_Center	45°			15
07/01/2009	2007	02_BF	023_Left	45°			15
07/01/2009	2008	02_BF	021_Right	45°			15
07/01/2009	2008	02_BF	022_Center	45°			15
07/01/2009	2008	02_BF	023_Left	45°			15
07/01/2009	2009	02_BF	021_Right	45°			15
07/01/2009	2009	02_BF	022_Center	45°			15
07/01/2009	2009	02_BF	023_Left	45°			15
07/01/2009	2010	02_BF	021_Right	45°			15
07/01/2009	2010	02_BF	022_Center	45°			15
07/01/2009	2010	02_BF	023_Left	45°			15