

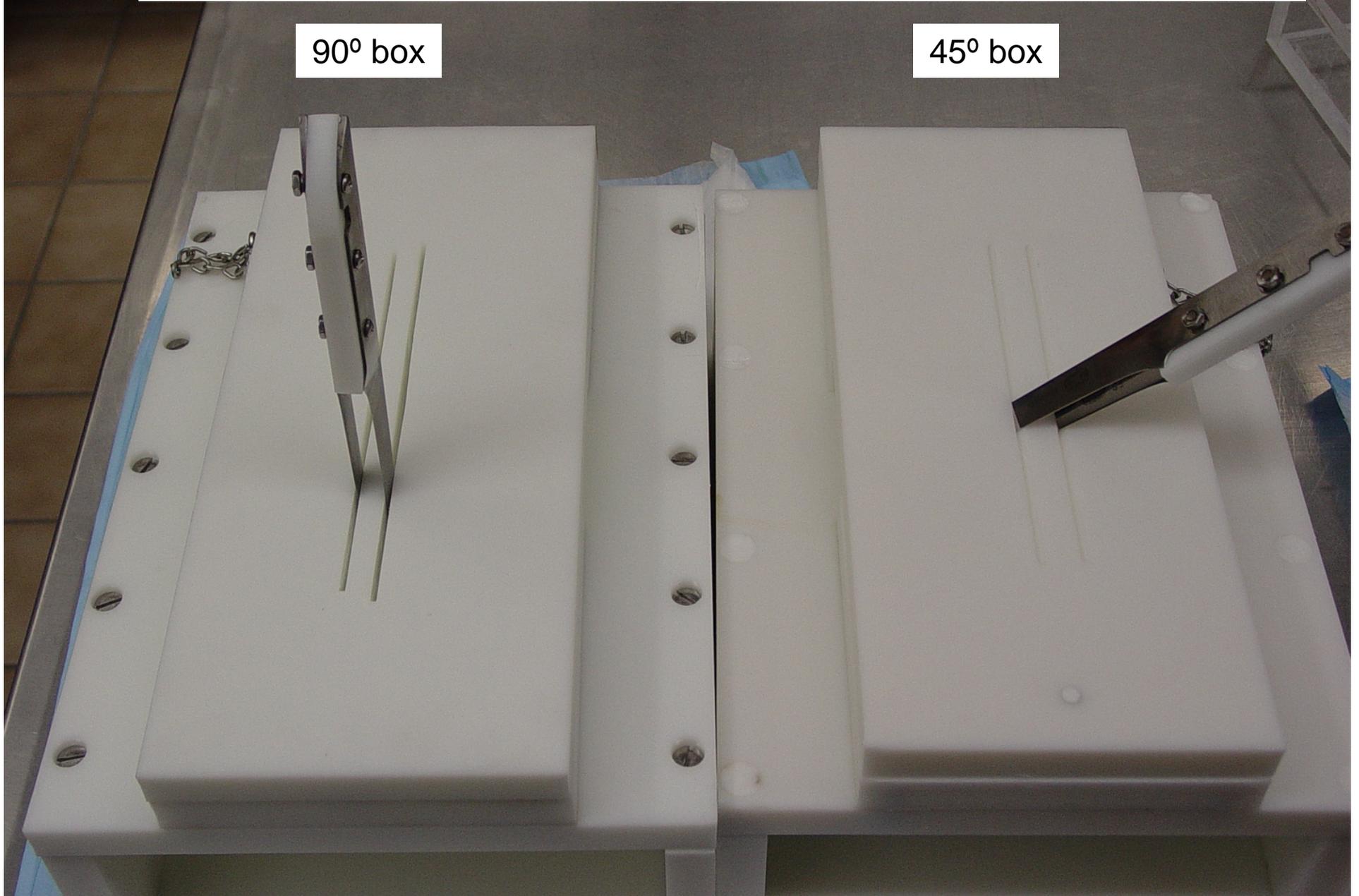
USMARC Slice Shear Force
Procedure for Beef
Biceps femoris ischiatic head (BFIH)

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

SSF sampling of BFIH is conducted with the 90° box

90° box

45° 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.

BFIH - Left

Steaks cut perpendicular to fiber

Distal

BFIH

Left

Steak 1

Steak 2

Steak 3

Steak n



Proximal

Steak 01



Steak 02



Steak 03



Steak 04



Steak 05



Steak 06



BFIH - Right

Steaks cut perpendicular to fiber
Distal

BFIH

Right

Steak 1

Steak 2

Steak 3

Steak n



Steak 01



Steak 02



Steak 03



Steak 04



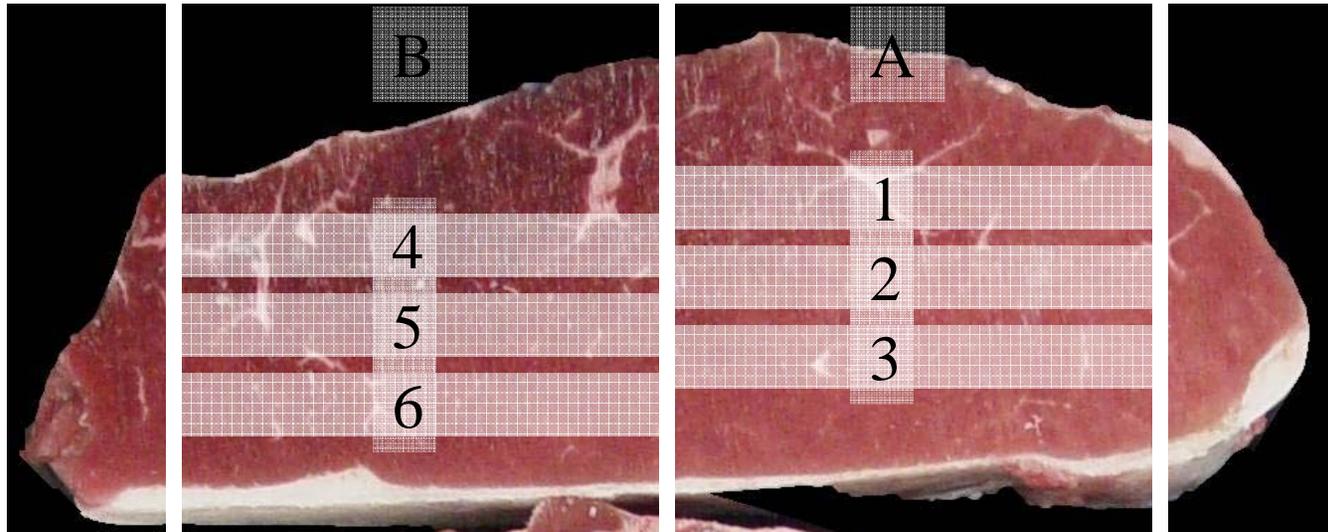
Steak 05



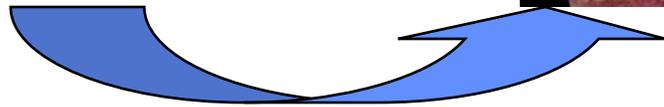
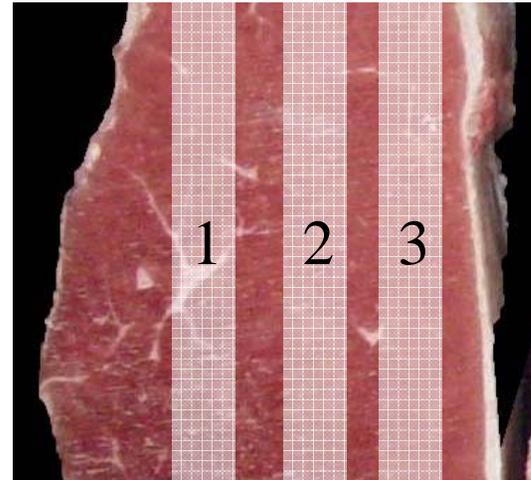
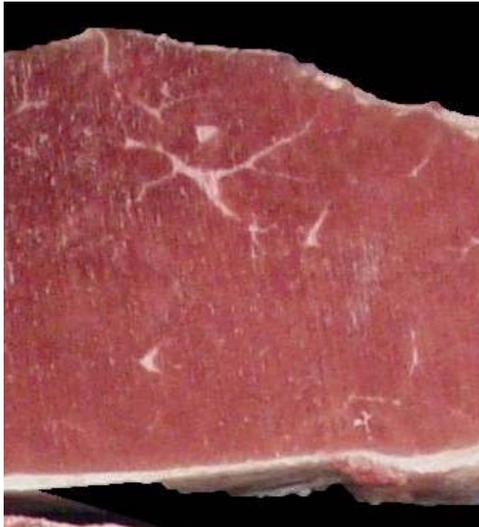
Steak 06



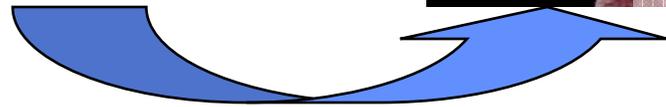
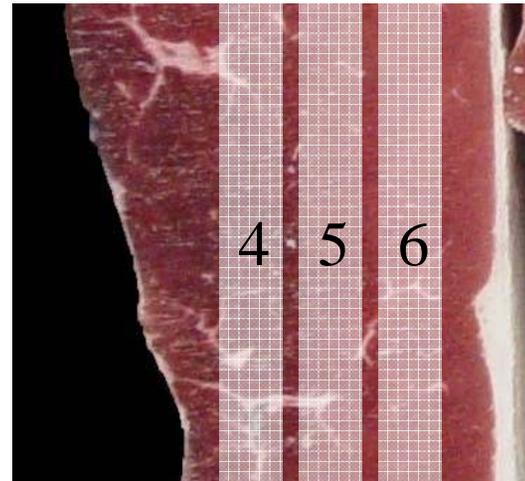
Proximal



Orient the steak with the blue mark at the top right. If the steak is small, then just take one column. If you cannot get three slices per section, then get two... or one.



Make cuts 1 and 2 and rotate the piece **counter clockwise** and place in the 90 degree box. Obtain the 1st slice near the top (now on the left) of the section. Obtain the 2nd slice in the center and the 3rd slice near the bottom (now on the right). Space the slices approximately equally.



Make cuts 3 and 4 and rotate the piece **counter clockwise** and place in the 90 degree box. Obtain the 4th slice near the top (now on the left) of the section. Obtain the 5th slice in the center and the 6th slice near the bottom (now on the right). Space the slices approximately equally.

Sample data sheet for BFIH SSF

Fresh_SSF_Data

Date	Yellow tag ID	Muscle	Location	Slice box	SSF	Notes	DPM
07/01/2009	2011	12_BFIH	121_Right_Top	90°			15
07/01/2009	2011	12_BFIH	122_Right_Center	90°			15
07/01/2009	2011	12_BFIH	123_Right_Bottom	90°			15
07/01/2009	2012	12_BFIH	121_Right_Top	90°			15
07/01/2009	2012	12_BFIH	122_Right_Center	90°			15
07/01/2009	2012	12_BFIH	123_Right_Bottom	90°			15
07/01/2009	2013	12_BFIH	121_Right_Top	90°			15
07/01/2009	2013	12_BFIH	122_Right_Center	90°			15
07/01/2009	2013	12_BFIH	123_Right_Bottom	90°			15
07/01/2009	2014	12_BFIH	121_Right_Top	90°			15
07/01/2009	2014	12_BFIH	122_Right_Center	90°			15
07/01/2009	2014	12_BFIH	123_Right_Bottom	90°			15
07/01/2009	2015	12_BFIH	121_Right_Top	90°			15
07/01/2009	2015	12_BFIH	122_Right_Center	90°			15
07/01/2009	2015	12_BFIH	123_Right_Bottom	90°			15
07/01/2009	2016	12_BFIH	121_Right_Top	90°			15
07/01/2009	2016	12_BFIH	122_Right_Center	90°			15
07/01/2009	2016	12_BFIH	123_Right_Bottom	90°			15
07/01/2009	2017	12_BFIH	121_Right_Top	90°			15
07/01/2009	2017	12_BFIH	122_Right_Center	90°			15
07/01/2009	2017	12_BFIH	123_Right_Bottom	90°			15
07/01/2009	2018	12_BFIH	121_Right_Top	90°			15
07/01/2009	2018	12_BFIH	122_Right_Center	90°			15
07/01/2009	2018	12_BFIH	123_Right_Bottom	90°			15
07/01/2009	2019	12_BFIH	121_Right_Top	90°			15
07/01/2009	2019	12_BFIH	122_Right_Center	90°			15
07/01/2009	2019	12_BFIH	123_Right_Bottom	90°			15
07/01/2009	2020	12_BFIH	121_Right_Top	90°			15
07/01/2009	2020	12_BFIH	122_Right_Center	90°			15
07/01/2009	2020	12_BFIH	123_Right_Bottom	90°			15