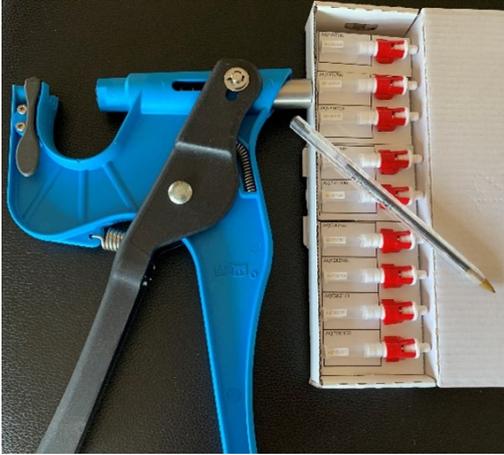


STANDARD OPERATING PROCEDURE

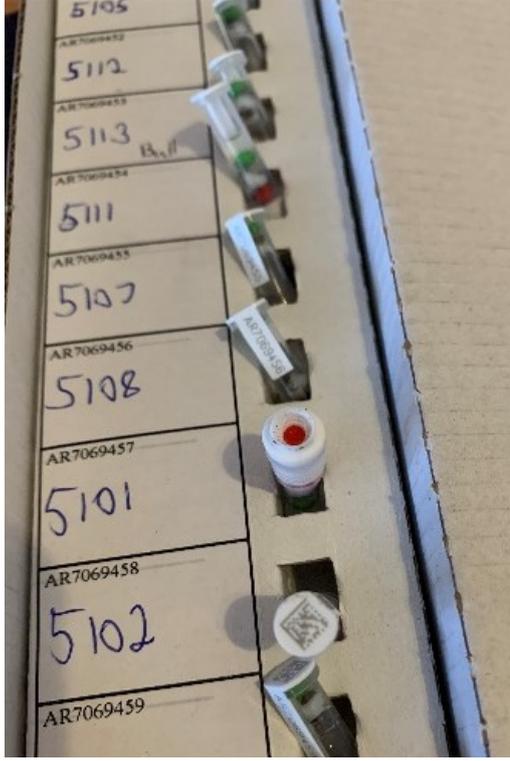
CALF REARING - GENOMIC TESTING CALVES

Collecting samples for genomic testing using Tissue Sampling Units (TSUs)

JOB STEPS	MEDIA	SAFETY / QUALITY / ENVIRONMENT
<p>1. Gather equipment:</p> <p>a. Gather Tissue Sampling Units (TSU), pliers and pen to record ID</p> <p>b. Have a rubbish bin accessible to dispose of waste.</p>		
<p>2. Prepare pliers:</p> <p>a. Squeeze the black spring loaded retainer clips together.</p> <p>b. Insert TSU</p> <p>c. Release clips to lock in the tube</p> <p>d. Gently squeeze the plier handles until the large piston comes to a stop against the red connection piece. You have now grabbed the needle.</p> <p>e. Release the handles and remove the red connection piece. The pliers are now charged and ready for use.</p> <p>f. Dispose red connection piece.</p>		
<p>3. Restrain the calf using a method suited to the size of the calf:</p> <p>a. At time of disbudding, collect samples while calves are sedated or restrained.</p> <p>b. Young calves can be gently crowded in a small area to take samples.</p> <p>c. Restrain older animals in a crush for sampling.</p>		<p>Safety - a. Wear disposable gloves</p> <p>b. Wear sturdy waterproof boots with ankle support.</p> <p>c. Where possible stand yourself in a position where you are out of the way of flailing limbs while sampling.</p>

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JOB STEPS	MEDIA	SAFETY / QUALITY / ENVIRONMENT
<p>4. Collect sample:</p> <p>a. Locate the ear of the calf, avoiding cartilage and blood vessels. Take the sample 1-2 cm from the edge of the ear.</p> <p>b. Slide the ear within the charged pliers and in one swift, smooth motion, squeeze the pliers to cut the tissue sample.</p> <p>c. Check that the sample and green ball are floating inside the TSU with the red stopper secure at one end.</p> <p>d. Squeeze spring loaded retain clips to release TSU.</p> <p>e. Pull plier handles apart to release needle.</p> <p>f. Dispose needle.</p>		<p>Safety - Keep fingers clear of the needle in the pliers when taking the sample and disposing the needle.</p> <p>Quality - When the pliers are charged, you will see the TSU locked on one side and the needle sitting firmly on the opposing side.</p>
<p>5. Write the ID number next to the sample ID printed on the card inside the box (eg AR7069467):</p> <p>a. Identify the number of the calf and write next to the TSU sample number in the box.</p> <p>b. If you are using a spreadsheet, record the number of the calf next to the TSU sample number in the spreadsheet.</p> <p>c. Place the TSU containing the calf's sample in the box, next to its number.</p>		<p>Quality - Clear and accurate recording of calf ID next to TSU sample number is crucial to a successful result</p> <p>Store TSUs at room temperature. Submit samples soon after collection.</p>
<p>6. Clean up and hygiene responsibilities:</p> <p>a. Clean the TSU pliers</p> <p>b. Remove and dispose of gloves and wash hands</p>		<p>Safety - Read Zoonotic disease transfer policy.</p> <p>Quality - Attention to detail when cleaning applicator.</p>