

Materials List for:

Bovine Mammary Gland Biopsy Techniques

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Materials

Name	Company	Catalog Number	Comments
70% Isopropyl alcohol	Walmart	565106257	1 L
Aerosol spray to kill and repel flies	MWI	14339	1 bottle (if necessary)
Biopsy needles, 12 G × 16 cm	C. R. Bard	MN1216	2
Butterfly infusion set (18 G needle)	Fisher	22-258087	1
Cell culture dishes	Fisher	08-772E	4
Cordless drill (low speed)	Hitachi	DS10DFL	1
Core biopsy instrument, Farr et al. (1996)			2, custom metal fabrication. To request the tool contact the authors.
Cows			cattle healthy
Flunixin meglumine	MWI/VetOne	501018	1.1 to 2.2 mg/kg of body weight
Folding table	Amazon		1
Forceps	Fisher	09-753-50	1
Gloves non-sterile	Fisher	17-200-845	9, size dependent
Hard brush	Sullivan Supply	18270	1, to wash the cows
Head gate			1, customized for dairy cows
Lidocaine hydrochloride 2% injectable	MWI/VetOne	510212	6 mL was used, from 3 to 8 mL
Livestock body wash	eZall Technologies	39384	1, to wash the cows
Needle 18 G (1 to 1/5")	Fisher	14-821-15A	6
Needle 20 G (1 to 1/5")	Fisher	14-815-526	6
Phosphate buffered saline (0.9%)	Fisher	20-012-043	1 L
Povidone iodine ointment	Jeffers	#VED1A	500 g (if necessary)
Povidone iodine scrub solution (0.75% iodine)	MWI/VetOne	510094	1 L
Reusable biopsy instrument	C. R. Bard	MG1522	1
Rope halter	Nasco farm and ranch	C10852	2, cow size
Scalpel blades (#10)	MWI	033870	2
Scalpel holders (#3)	MWI	602008	1
Self seal autoclave pouch 10 x 5.5 in.	Fisher	19-130-0038	1 case of 800
Sterile cotton gauze sponges	Fisher	22-037-986	4

Sterile gauze pads	Fisher	19-090-735	4
Sterile surgical gloves	Surgical gloves	19-166-679	3, size dependent
Sterile surgical towels	Fisher	50-118-0339	6
Stethoscope	Littmann Master Classic II	1392	1
Surgical clipper	Oster A5	078005-010-003	1, preparation of the animal for biopsy
Surgical clipper blades (#40)	Oster	78919-016	1, preparation of the animal for biopsy
Surgical staple remover	MWI	541	1
Surgical stapler pre-loaded	MWI	17713	5
Syringes of 10 mL	Fisher	14-823-224	3
Syringes of 2 mL	Fisher	22-028854	3
Syringes of 20 mL	Fisher	22-034507	3
Syringes of 5 mL	Fisher	22-028855	3
Thermometer	Agri-Pro Enterprises Inc	72000	1
Tolazine hydrochloride	Akorn Animal Health	61311-486-10	2 to 4 mg/kg of body weight (if necessary)
Tweezer	Fisher	14-955-025	1, for handle the tissue sample
Water hose	Miracle-Gro, Walmart	554990501	1, to wash the cows
Water-resistant aerosol bandage (aluminum powder 40 mg)	MWI	010728	1 bottle
Xylazine hydrochloride	MWI/VetOne	510650	0.01 to 0.05 mg/kg of body weight