



ABORTION KIT INSTRUCTION SHEET

MONTANA VETERINARY DIAGNOSTIC LABORATORY
DIVISION OF THE DEPARTMENT OF LIVESTOCK – STATE OF MONTANA
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PURPOSE - The kit is designed to increase the potential for a definitive diagnosis in cases of livestock abortion. Collection and preservation of samples in the field will greatly facilitate the identification of pathogenic organisms by reducing autolysis.

KIT CONTENTS AND INSTRUCTIONS FOR USE

- ♦ An SV43 submission form in a Whirl-Pak®
 - Complete the form and refer to the Gestational Age Chart (see reverse) to estimated age of the fetus
 - Place completed form back into Whirl-Pak® to prevent contamination during transport
- ♦ Red top blood tube & small Whirl-Pak®
 - Open chest and abdomen of fetus
 - Collect abomasal contents in tube labeled with animal ID and Owner's name
 - Place in small Whirl-Pak® containing sufficient absorbent material to prevent breakage or leakage
- ♦ Fresh tissues – two small and one large Whirl-Pak® bags
 - One small bag – placenta including at least one cotyledon and portions of non-cotyledonary tissue
 - Second small bag – 1 to 2 inch cubes of lung, liver, spleen and kidney (palatine tonsil from swine)
 - Label each bag with animal ID, tissues contained and Owner's name
 - Place both labeled small bags into a large Whirl-Pak®
- ♦ Fixed tissues - one bottle of 10% formalin & large Whirl-Pak®
 - Collect ½ to ¾ inch thick pieces of lung, liver, heart, spleen, kidney, thymus, brain, diaphragm/tongue and placenta including at least one cotyledon and portions of non-cotyledonary tissue
 - Cap tightly (no tape please) and place bottle in large Whirl-Pak® labeled with animal ID
- ♦ Refrigerate all samples – do not freeze – and ship immediately; the kit *does not include* cold packs or absorbent padding and these items must be supplied by submitter

DAM TISSUE (IF AVAILABLE)

- ♦ Blood in red top tube(s):
 - Single sample – Brucella titer
 - Multiple samples – acute sample and convalescent sample 10 to 14 days later. Remove serum immediately after collection, freeze serum and submit both samples with a completed SV2A
- ♦ Caruncle from cow abortion if the placenta is not available

SHIPPING

US POSTAL ADDRESS

Montana Veterinary Diagnostic Lab
P O Box 997
Bozeman, MT 59771

UPS, FEDEX EXPRESS, GREYHOUND ADDRESS

Montana Veterinary Diagnostic Lab
Marsh Lab, Room 76
1911 West Lincoln
Bozeman, MT 59718

CONTINUED ON REVERSE



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GESTATIONAL AGE CHART

CROWN-RUMP LENGTH (CM)	EXTERNAL FETAL CHARACTERISTICS	ESTIMATED AGE
Bovine		
6-8	Claw buds present	2 mo
13-17	Lips, chin and eyelids	3 mo
22-32	Fine on eyebrows, claws developed	4 mo
30-45	Eyebrows and lips, testes in scrotum, teats developing	5 mo
40-60	Inside ears, muzzle, tip of tail and around horn pits	6 mo
55-75	Matatarsal, metacarpal regions of extremities; long on tail tip	7 mo
60-80	Fine, short hair over all of body; incisors not erupted	8 mo
70-100	Complete coat and incisors present	9 mo
Equine		
0.9-1.0	Eye, mouth and limb buds visible	1 mo
4-7.5	Lips, nostrils and beginning of feet development, eyelid partially closed	2 mo
10-14	Mammary nipples and hooves visible	3 mo
15-20	External genitalia formed; orbital areas prominent	4 mo
25-37	Perhaps fine on orbital arch and tail tip	5 mo
3-60	Nose, eyelashes; fine on mane, lips and orbital arch	6 mo
55-70	Hair on lips, nose, eyebrow, eyelids, edge of ears, back and mane	7 mo
60-80	Hair on mane and tail, back and distal portion of extremities	8 mo
80-90	Short fine hair over entire body	9 mo
70-130	Short hair over entire body, increase in mane and tail	10 mo
100-150	Complete hair coat with color; testes descended	11 mo
Ovine		
0.3-2	Head, body and limbs are discernible	1 mo
2-9	Hoofs visible at end of digits	1.5 mo
9-15.5	No hair; rumen development	2 mo
15-35	Large tactile hairs on lips and upper eyelids	3 mo
35-40	Eyelashes well developed; some hair on head and tail	4 mo
40-48	Hair over entire body; hoofs complete but soft	5 mo
Porcine		

