



MONTANA VETERINARY DIAGNOSTIC LABORATORY

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NEONATAL DIARRHEA KIT

PURPOSE

The neonatal diarrhea kit is designed increase the potential for definitive diagnosis in cases of neonatal diarrhea, as improved collection and preservation of samples in the field will greatly facilitate laboratory analysis. The information and supplies provided can be useful for sample collection and submission in all livestock species.

COLLECTION OVERVIEW

Selection of samples from the appropriate individual is important for reaching an accurate herd diagnosis:

- A fresh, *untreated* animal that died in the acute stages of disease
- An acutely ill animal in a herd outbreak (selected for euthanasia and diagnosis rather than treatment)

KIT CONTENTS, USE & SPECIMEN COLLECTION (LISTED IN ORDER OF IMPORTANCE)

- ◆ Single animal submission form and large Whirl-Pak® bag
 - Complete the submission form – include history, the **age** of the source animal, herd morbidity, herd mortality, any treatment given and response to treatment given
 - Place completed form back into the Whirl-Pak® bag and close bag to prevent contamination during transport
 - ◆ Feces container and small Whirl-Pak® bag
 - Collect 5-10 mL of feces and/or intestinal contents in container labeled with animal ID and Owner's name
 - Place container in small Whirl-Pak® bag containing sufficient absorbent material to prevent breakage or leakage and close small bag
 - ◆ Bottle of 10% neutral buffered formalin (NBF) and Biohazard bag with absorbency
- Fixed Tissues:
- Collect ½ to ¾ inch thick pieces of lung, liver, heart, spleen, kidney and mesenteric lymph nodes
 - Collect two each of 1-inch sections of jejunum, ileum and colon; include any grossly abnormal tissue
 - Cap tightly (**no tape please**) and place bottle in large Biohazard bag labeled with animal ID and close large bag
- ◆ Two small and one large Whirl-Pak® bags
- Fresh Tissues:
- One bag – mesenteric lymph nodes and 2-inch cubes of lung, liver, kidney and spleen
 - Second bag – two each of 3-inch segments of small and large intestine; include any grossly abnormal intestine
 - Label each bag with animal ID, tissues contained and Owner's name
 - Place both labeled, closed small bags into large Whirl-Pak® bag and close large bag
- ◆ Red top blood tube and small Whirl-Pak® bag - *for assessment of maternal transfer of immunity in neonates*
 - Collect 5-10 mL of antemortem blood (if possible). Blood can be obtained postmortem from a large vein or the heart. Place in tube labeled with animal ID and Owner's name
 - Place closed tube in small Whirl-Pak® bag containing sufficient absorbent material to prevent breakage or leakage
- Note: Kit *does not include* cold packs or absorbent padding and these items must be supplied by submitter.

REFRIGERATE ALL SAMPLES – DO NOT FREEZE – AND SHIP IMMEDIATELY

SHIPPING (ALL CARRIERS)

Montana Veterinary Diagnostic Lab
1911 West Lincoln Street
Marsh Lab, Room 76
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