



Animal and
Plant Health
Inspection
Service

Veterinary
Services

NAHMS Goat 2019 Blood & Swab Sample Collection Records

National Animal Health
Monitoring System

2150 Centre Ave, Bldg B
Fort Collins, CO 80526

Form Approved
OMB Number 0579-0354
Approval expires:
04/30/2022

Sample Collection Overview

The blood samples collected in the purple-top blood tubes will undergo genetic testing to look for genes that are known to be resistant to scrapie. Scrapie resistance results will be sent to all participants. The blood samples collected in the red-top blood tubes will be used to create a goat serum bank. The serum bank will be used for research that will benefit the goat industry. Does that have blood samples collected in the red-top tubes can also have nasal and vaginal swab samples collected. Nasal swabs (red cap) will be tested for the bacterium *Mycoplasma ovipneumoniae* and these results will be sent to all participants. Vaginal swabs (clear cap) will be tested for the bacterium that causes Q fever, *Coxiella burnetii*. These results will not be returned to participants.

Samples can be collected any day of the week, but samples can only be shipped Monday-Wednesday. Keep samples cool in a refrigerator until the next shipping day. If possible, blood samples in the red-top blood tubes should be spun down once clotted.

Blood and serum samples are to be shipped to NVSL in the shipping cooler/box provided.

Both sets of swabs are to be shipped to KSVDL using the insulated mailer provided.

Please be sure the original and yellow Blood (Purple-Top Tubes) Collection Record and the original Serum (Red-Top Tubes) and Swab Collection Record are shipped with the purple- and red-top blood tubes in the shipping cooler, and the yellow and pink copies of the Serum (Red-Top Tubes) and Swab Collection Record are included with the swab samples in the insulated mailer.

Kit Contents

This kit contains supplies for blood collection, nasal swabs, and vaginal swabs. Please remove any extra or unused supplies before shipping samples. In this kit you will find:

- 15, 7-ml purple-top blood tubes
- 25, 10-ml red-top blood tubes
- 1 tube divider box
- 35, 20-gauge, 1" vacutainer needles
- 3 vacutainer holders
- 25 nasal swabs (red swab cap)
- 15 vaginal swabs (clear swab cap)
- 2 liner bags, 2 gallon sized Ziploc® bags, 3 ice packs, 3 absorbent sheets
- Sarstedt marker for tube labeling
- Ballpoint pen for filling out the Collection Records
- 1 large insulated cooler box and shipping box
- 1 large insulated mailer
- Paperwork including Collection Records, labels, and 2 UPS airbills addressed to NVSL and KSVDL

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0579-0354. The time required to complete this information collection is estimated to average 2.5 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

**NAHMS-458
JUN 2019**

Blood Collection Instructions

Note: If collecting both red top and purple top blood tubes on the same goat, collect red top tubes first.

Purple-Top Blood Tubes

Use 1 purple-top tube per goat to collect blood, using the provided needles and vacutainer holder. If you prefer syringes or a different needle, you will need to provide your own. **The lab only needs 3ml of blood in the purple-top tube**, so you do not need to fill the 7ml tube. Sample a maximum of 15 goats that are at least 15 months of age. Does can be pregnant if the Producer is comfortable with the sampling. Take samples from no more than 5 unrelated bucks and 5 unrelated does of 1 breed. If more than one breed is present on the operation, you may submit additional samples from unrelated does or bucks of the other breed(s) for a maximum of 15 samples per farm.

Use the preprinted purple labels numbered 1a through 15a to label the purple-top tube samples. Using the **Sarstedt marker**, **write the goat name/ID on the label**. Make sure the labels are secure on the tubes.

Please place tubes in the tube divider boxes in numeric order.

Red-Top Blood Tubes

Collect from does that are at least 15 months of age. Does can be pregnant if the Producer is comfortable with the sampling. **Sample a maximum of 25 does:**

Number of Does on an Operation	Sample Number
1 to 19 does	Sample all does
20 to 49 does	Sample 20 does
50 or more does	Sample 25 does

Fill 1 red-top tube per doe using the provided needles and vacutainer holder. If you prefer syringes or different length needle, you will need to provide your own.

Use the preprinted red labels numbered 1b through 25b to label the red-top tube samples. You may sample does that were previously sampled with a purple-top tube. Using the **Sarstedt marker**, **write the goat name/ID on the label**. Make sure the labels are secure on the tubes.

The lab will appreciate it if you can let the samples in the red-top tubes clot and then spin them down. Please place tubes in the tube divider boxes in numeric order.

Nasal Swab Instructions

Collect one nasal swab sample from each doe that had blood collected in a red-top tube. The sample numbers and goat IDs need to match the samples from the red-top blood tubes.

Firmly grasp the red swab cap and twist to remove the attached nasal swab from the plastic tube (save the plastic tube). Insert the swab **gently** and deep into each nostril, without touching anything outside of the nostril with the swab. Swabs can go 4 to 5 inches deep. Insert the same swab into each nostril with a gentle twisting motion in order to roll the swab along the nasal mucosa. Discard the swab and use a new one if the swab is dropped on the ground or rubbed along the face outside of the nostril.

Insert the swab back into the plastic tube, insuring the cap is tight. Use the preprinted orange nasal swab labels numbered 1b through 25b to label plastic swab tube. Using the **Sarstedt marker**, **write the Goat name/ID on the label**. Make sure the labels are secure on the tubes.

Place the plastic tubes with the nasal swab samples in the gallon sized Ziploc® bag labeled with an orange nasal swab bag label.

Vaginal Swab Instructions

Collect one vaginal swab from **up to 15 does** that had a red-top blood tube collected. The sample numbers and goat names need to match the samples on the red-top blood tubes.

Firmly grasp the clear swab cap and twist to remove the attached vaginal swab from the plastic tube (save the plastic tube). Insert the swab gently into the vagina by spreading the vulvar lips. The swab wand should be inserted at least half way into the vagina and rotated 180 degrees, 4 to 5 times. Discard the swab and use a new one if the swab is dropped on the ground.

Insert the swab back into the plastic tube, insuring the cap is tight. Use the preprinted blue labels numbered 1b through 15b to label each culture tube. Using the **Sarstedt marker, write the goat name/ID on the label.** Make sure the labels are secure on the tubes.

Place the plastic tubes with the vaginal swab samples in the gallon sized Ziploc® bag labeled with a blue vaginal swab bag label.

Collection Record Form Instructions

Match the label number on the tube to the appropriate lines on the collection form. **Using a ballpoint pen, complete all information requested. Include the white and yellow Blood (Purple-Top Tubes) Collection Record and the white Serum (Red-Top Tubes) and Swab Collection Record with the purple- and red-top blood samples. Include the yellow and pink copies of the Serum (Red-Top Tubes) and Swab Collection Record with the swab samples.**

Shipping

Keep samples cool in a refrigerator until the next shipping day. **Ship only Monday-Wednesday.**

Place the blood box filled with blood samples, one absorbent sheet, and one ice pack inside a liner bag, express air and tie shut. Place this linear bag with the blood samples inside the cooler box. Close the cooler lid. Place the original (white) and yellow collection records (Blood (Purple-Top Tubes) Collection Record and the original (white) Serum (Red-Top Tubes) and Swab Collection Record) on top of the cooler lid. Secure shipping box and attach the **airbill addressed to NVSL** onto the shipping box. **Ship only Monday-Wednesday.**

Place both sets of Ziploc bags with swab samples (**nasal tubes and the vaginal tubes**) inside a second liner bag with two ice packs and 2 absorbent sheets. Express the air and tie the liner bag shut. Place the liner bag with the samples and ice packs inside the insulated mailer. Insert the yellow and pink copy of the Serum (Red-Top Tubes) and Swab Collection Record inside the insulated mailer. Secure the insulated mailer and attach the airbill addressed to KSVDL onto the insulated mailer. **Ship only Monday-Wednesday.**

NOTE: Remove or black out all extraneous labels on outside of box.

Blood (Purple-Top Tubes) Collection Record

If collecting both purple and red top tubes from the same goat, collect red top samples 1st. For the purple-tops, sample a maximum of 15 goats that are at least 15 months of age. Take samples from no more than 5 unrelated bucks and 5 unrelated does. If more than one breed is present on the operation, you may submit additional samples from unrelated does or bucks of the other breed(s).

NAHMS ID: <div style="text-align: right; font-size: small;">6 digits pid</div>	Date: <div style="text-align: right; font-size: small;">mm/dd/yy pdate</div>	Kit #: <div style="text-align: right; font-size: small;">Printed on labels pkit</div>	Total doe inventory TODAY: <div style="text-align: right; font-size: small;">pdnum</div>	Total buck inventory TODAY: <div style="text-align: right; font-size: small;">pbnum</div>
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Submit the white and yellow records to the lab in the cooler box.

p101	p102	p103y	p104	p105/p105oth
Label number	Goat ID	Age (years)	Goat Gender 1=Doe 2= Buck	Breed <i>[See breed codes below]</i>
1a				
2a				
3a				
4a				
5a				
6a				
7a				
8a				
9a				
10a				
Continue collection if more than one breed is present on the operation.				
11a				
12a				
13a				
14a				
15a				

Breed Codes:

- | | | | |
|------------------|------------------|-------------|------------------------------|
| 1=Alpine | 6=Kiko | 11=Pygmy | 16=Spanish |
| 2=Angora | 7=LaMancha | 12=Pygora | 17=Toggenburg |
| 3=Boer | 8=Nigerian dwarf | 13=Saanen | 18=Crossbred (specify _____) |
| 4=Cashmere | 9=Nubian | 14=Sable | 19=Other (specify _____) |
| 5=Fainting goats | 10=Oberhasli | 15=Savannah | |

Serum (Red-Top Tubes) and Swab Collection Record

If collecting both purple and red top tubes from the same goat, collect red top samples 1st.

For the red-tops, sample does that are at least 15 months of age.

NAHMS ID: 6 digits <small>rid</small>	Date: mm/dd/yy <small>rdate</small>	Kit #: Printed on labels <small>rkit</small>	Total doe inventory TODAY: <small>rdnum</small>
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<small>r101</small>	<small>r102</small>	<small>r103y</small>	<small>r104/r104oth</small>	<small>r105</small>	<small>r106a-e</small>	<small>r107</small>	<small>r108</small>	<small>r109</small>
Label number	Doe ID	Age (years)	Breed [See breed codes below]	Doe status 1=Nursing 2=Pregnant 3=Open	Clinical History: 1=Abortion in previous 12 months 2=Runny nose 3=Thin 4=Diarrhea 5=Other [List all that apply]	Comment or specify other clinical history	Nasal Swab Collected? Place a checkmark for YES	Vaginal Swab Collected? [Only 15 samples] Place a checkmark for YES
1b								
2b								
3b								
4b								
5b								
6b								
7b								
8b								
9b								
10b								
11b								
12b								
13b								
14b								
15b								

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- | | | | |
|------------------|------------------|-------------|------------------------------|
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Serum (Red-Top Tubes) and Swab Collection Record

Label number	Doe ID	Age (years)	Breed [See breed codes below]	Doe status 1=Nursing 2=Pregnant 3=Open	Clinical History: 1=Abortion in previous 12 months 2=Runny nose 3=Thin 4=Diarrhea 5=Other [List all that apply]	Comment or specify other clinical signs	Nasal Swab Collected? Place a checkmark for YES	Vaginal Swab Collected? [Only 15 samples] Place a checkmark for YES
16b								
17b								
18b								
19b								
20b								
Continue collection if there are 50 or more does on the operation.								
21b								
22b								
23b								
24b								
25b								

How many people in each category helped with the collection of the blood and swab samples?

_____ Fed VMO rvmo _____ State government rst
 _____ Fed AHT raht _____ Producer rprod
 _____ Other (specify: _____) roth

Total sample time: _____ hours rhr

Primary collector name and phone: _____ rname/rph

Submit the white record with in the cooler box with the blood. Submit the yellow and pink records in the insulated mailer with the swabs.

Breed Codes:

- | | | | |
|------------------|------------------|-------------|------------------------------|
| 1=Alpine | 6=Kiko | 11=Pygmy | 16=Spanish |
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