

National Animal Health Monitoring System (NAHMS) Enteric Microbe Report

Date of report: 11/1/2019

Enteric Microbe test results for NAHMS ID: 999999

Date of sample collection: 10/1/2019

Dear participant,

Thank you for participating in the enteric microbe testing portion of the NAHMS Goat 2019 Study. This report contains testing results for *Salmonella*, *E. coli*, *Campylobacter*, *Giardia*, and *Cryptosporidium* performed on goats at your operation. Please consider sharing these results with your veterinarian.

If you have questions about the accuracy of your results, please contact Dr. Alyson Wiedenheft, the NAHMS biologics coordinator at (970) 494-7290 or Alyson.M.Wiedenheft@aphis.usda.gov.

Background on *Salmonella*, *E. coli*, *Campylobacter*, *Giardia*, and *Cryptosporidium*:

The bacteria *Salmonella*, *E. coli*, and *Campylobacter* and the protozoa *Giardia* and *Cryptosporidium* all can inhabit the intestinal tract of goats and can be shed in their feces. Goats that are shedding these enteric microbes can have clinical signs such as diarrhea or fever, or can appear totally healthy. *E. coli* are normal (commensal) flora of the intestines of humans and animals, and while many subtypes are harmless, others, like *E. coli* O157:H7, can cause disease by producing a toxin called Shiga toxin.

When enteric microbes are shed in goats' feces, they can cause infections in other animals and humans and can contaminate the environment. Thus, it is important to take precautions when working with goats that are known to be shedding these enteric microbes.

Overview of Enteric Microbe Testing Performed and Results Reported:

Fecal samples collected from goats on your operation were tested for the presence of *Salmonella*, Shiga toxin-producing *E. coli* (STEC), *Campylobacter*, *Giardia*, and *Cryptosporidium*.

The presence ("Positive") or absence ("Negative") of the microbes in the samples are reported for each goat sampled. For some animals, there may not be enough fecal samples to complete all the testing. If an insufficient amount of fecal sample was submitted, the column will read "Insufficient."

Enteric Microbe RESULTS:

Individual Goat Results:

Sample #	Goat name/ID	Salmonella	STEC <i>E. coli</i>	Campylobacter	Giardia	Cryptosporidium
1	Patty	Negative	Negative	Negative	Negative	Insufficient
2	Alice	Negative	Positive	Negative	Negative	Negative
3	Jackie	Negative	Negative	Negative	Negative	Negative
4	Willa	Negative	Negative	Negative	Negative	Negative
5	Jane	Negative	Negative	Negative	Negative	Negative
6	Bonnie	Negative	Negative	Negative	Negative	Negative
7	Samantha	Negative	Positive	Negative	Negative	Negative
8	Cammie	Negative	Negative	Negative	Negative	Negative
9	Jill	Positive	Positive	Negative	Negative	Negative
10	Suzy	Negative	Negative	Negative	Negative	Negative
11	Mel	Negative	Negative	Negative	Negative	Negative
12	678	Negative	Negative	Negative	Negative	Negative
13	679	Negative	Negative	Negative	Negative	Negative
14	680	Negative	Negative	Negative	Negative	Negative
15	681	Negative	Negative	Negative	Negative	Negative
16	Jasper	Negative	Negative	Negative	Negative	Negative
17	Katie	Negative	Negative	Negative	Negative	Negative
18	Fannie	Negative	Negative	Negative	Negative	Negative
19	Helen	Negative	Positive	Negative	Negative	Negative
20	Lemon	Negative	Negative	Negative	Negative	Negative
21	Rascal	Negative	Positive	Negative	Negative	Negative
22	Trisha	Negative	Negative	Negative	Negative	Negative
23	Vicki	Negative	Negative	Negative	Negative	Negative
24	Wendy	Negative	Negative	Negative	Negative	Negative
25	Apple	Negative	Negative	Negative	Negative	Negative

Enteric Microbe Results Interpretation (if one or more were positive):

One or more of the goats tested from your operation were positive for *Salmonella*, Shiga toxin-producing *E. coli* (STEC), *Campylobacter*, *Giardia*, and/or *Cryptosporidium* in their feces on the day sampled. You may want to share these results with your veterinarian.

Enteric Microbe Results Interpretation (if all were negative):

None of the goats tested from your operation were positive for *Salmonella*, Shiga toxin-producing *E. coli* (STEC), *Campylobacter*, *Giardia*, and/or *Cryptosporidium* in their feces on the day sampled. Fecal microbes can be shed intermittently, therefore a negative test result does not mean your goats will never shed these microbes. If any of your goats experience clinical signs consistent with an enteric microbe infection, you may wish to consult your veterinarian about submitting additional samples for testing.