

Calf Diarrhea – This is a list of available tests to identify the pathogens causing calf diarrhea. A recommended list of initial testing for common pathogens is provided, but the age and production type of the calf should determine which tests are selected. The best results come from acutely affected and untreated calves. A list of additional tests for less common pathogens, for other test methods, or for referral testing is also provided.

Recommended Initial Testing:

TEST Name	Recommended Samples	In-state Price*	Details	Lab/Section/Test Schedule	Turn Around Time
Necropsy	Freshly dead animal	\$50.00 + disposal fee of \$25/250 lbs, up to \$100	Examining untreated and more acutely affected will provide most useful results. A freshly dead animal is extremely important to the value of the necropsy and additional testing. Additional testing is determined by veterinarian and tests done at NCV DLS are included in necropsy fee.	All/Necropsy/M-F	3-21 days
Histopathology (field necropsy)	Formalin fixed jejunum, ileum, LI, mesenteric lymph node, liver, lung, ear skin (minimum); tissues with lesions	\$45.00 for the first 4 slides. \$5.00 for every additional slide.	Submit multiple sections of entire GI tract. Adequate formalin fixation (10:1 formalin:tissue) is critical. Tissue sections < ¼” thick. Fresh tissue testing is also recommended, see diagnostic plan list.	Rollins/Histo/M-F	2-3 days
Aerobic culture (<i>E. coli</i> , etc.) (antibiotic susceptibility upon request)	1-2 grams (minimum), feces, tied-off loop of SI or LI, lung	\$17.00/ sample	Select acutely sick, untreated animal. Do not submit in gloves. Culture of lung can diagnose septicemia. Pieces of tissue at least 1” thick and in individual and labeled containers. Intestine and lung will be initially cultured, and additional tissues will be held for future testing, as needed.	Rollins/Bacti/M-F	3-5 days
<i>Salmonella</i> culture (enrichment broth) (antibiotic susceptibility upon request)	1-2 grams (minimum), feces, tied-off loop of SI or LI, lung	\$14.00/ sample	Serotyping is included. Select acutely sick, untreated animal, do not submit in gloves. Culture of lung can diagnose septicemia. Pieces of tissue at least 1” thick and in individual and labeled containers. Intestine and lung will be initially cultured, and additional tissues will be held for future testing, as needed.	Rollins/Bacti/M-F	3-5 days
<i>Clostridium perfringens</i> culture	Tied-off loop of SI or LI	\$12.00/ sample	Do not submit in gloves. Tied-off loop of intestine is preferred. For best results with feces, submit in anaerobic transport media	Rollins/Bacti/M-F	3-5 days

Giardia/Cryptosporidium Indirect Fluorescent Antibody (IFA)	1:1 ratio of feces in formalin	\$30.00/sample	Uses fluorescent antibodies to detect Giardia and Cryptosporidium	Rollins/Bacti/M	Mondays only. 2 days.
Rotavirus, coronavirus Electron Microscopy (EM)	5-10 grams feces, fecal swab	\$28.00/sample; Additional samples \$10 each	Detects viral particles by electron microscope.	Rollins/Viro/F	Fridays only. 2-3 days
Bovine viral diarrhea virus (BVDV) testing	See BVDV Testing Plan				

* Out-of-state submissions are charged at two times the in-state rate. See fee schedule for details.

A \$2.00 accession fee is applied to each case.

Calf Diarrhea Additional testing:

TEST Name	Recommended Samples	In-state Price*	Details	Lab/Section/Test Schedule	Turn Around Time
<i>E. coli</i> virulence factor genotyping PCR	Isolate from aerobic culture	\$35.00/isolate	Request within 7 days after aerobic culture is completed. These virulence factors are tested K99, F41, STa, EAE, Stx1, Stx2	Rollins/Mol/Th	Thursdays only 2-3 days
<i>C. perfringens</i> genotyping PCR	Isolate from <i>C. perfringens</i> culture	\$27.50/isolate	Request within 7 days after <i>C. perfringens</i> culture is completed. Identifies the different enterotoxins to determine the type of <i>C. perfringens</i> (A, C, D)	Rollins/Mol/Th	Thursdays only 2-3 days
<i>Campylobacter jejuni</i> culture	Tied-off loop of SI, feces	\$12.00/sample	Individual and labeled containers	Rollins/Bacti/M-F	3-7 days
<i>Yersinia</i> sp. culture	Tied-off loop of SI, feces	\$14.00/sample	Individual and labeled containers. If culture negative at 48 hours, enrichment broth is held for up to 3 weeks.	Rollins/Bacti/M-F	3-21 days
Fecal floatation or McMasters Quantitation	Minimum 5 grams of feces	Floatation \$6.00 McMasters \$12.00	Floatation is a qualitative test. McMasters reports result as EPG for strongyle ova. Do not submit in gloves.	All/Rollins-Bacti/M-F	2-3 days
Bovine corona virus Immunohistochemistry (IHC)	Formalin fixed SI, tissue block, or slide	\$45.00 for 1 slide, \$25.00 for each additional slide	Detects virus in intestinal mucosa.	Rollins/IHC/T,Th	2-4 days
Calf Diarrhea PCR Panel referral	5-10 grams of feces or 1-2 ml of intestinal contents	\$40.00, \$7.00 accession fee, and \$20 for shipping	Referral - For calves <60 days of age. Includes Cryptosporidium, Rota virus, Corona virus	Texas Veterinary Medical Diagnostic Lab	3-7 days

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