NDSU VETERINARY DIAGNOSTIC LABORATORY

Bovine diarrhea diagnostic panel work-up (< 4 weeks old)

Common differential list:

- Bacteria: *Escherichia coli, Salmonella* spp., *Clostridium perfringens*
- Viruses: Rotavirus, bovine coronavirus, BVDV
- Protozoa: *Cryptosporidium parvum*

Samples to submit (fresh and fixed)

- ☐ Small intestines: duodenum, jejunum, ileum (1-2 segments/each)
- ☐ Cecum
- ☐ Colon
- ☐ Abomasum, rumen
- ☐ Kidney
- ☐ Liver
- ☐ Spleen
- ☐ Thymus
- ☐ Mesenteric lymph nodes
- ☐ Lung
- ☐ Adrenal gland
- ☐ Any additional gross lesions

Standard tests run at the laboratory (included in the general investigation)

- ☐ Histopathology
- ☐ Enteric culture
  - If *E. coli* is isolated and significant based on clinical history and histopathology, PCR for virulence factors will be performed
- ☐ Bovine diarrhea panel PCR (rotavirus, bovine coronavirus, *cryptosporidium parvum*)
- ☐ Case-by-case basis: depending on age and clinical history
  - *Clostridium perfringens* culture
    - If *C. perfringens* is isolated and significant based on clinical history and histopathology, PCR for toxin genotyping available (additional cost)