

CLOSTRIDIUM DIAGNOSIS OUTLINE

CUBOLAC®

is an essential tool for the control of *Clostridium* spp. in ruminants.

Appearance	Age	Symptoms	Probable diagnostic	<i>Cl. sp</i> involved
DEATH OF ANIMALS <ul style="list-style-type: none"> Sudden death Sudden or progressive death Animals died over night 	all ages	<ul style="list-style-type: none"> Death or case with nervous agitation Death without agitation 	<ul style="list-style-type: none"> Pulpy kidney Acute or Exacerbated pasteurellosis 	<ul style="list-style-type: none"> <i>C. Perfringens</i> D (ε toxin) <i>Mainnhemia haemolytica</i> A2
	young or immature animals	Nervous symptoms, central blindness, disoriented	Acute enterotoxemia	<i>C. Perfringens</i> C (β toxin)
	adults	Nervous symptoms, excitement, sudden death	Enterotoxemia	<i>C. Perfringens</i> D (ε toxin)
	breeding or growth animals	Digestive tract disorders	<ul style="list-style-type: none"> Yellow lamb disease Enteritis 	<i>C. Perfringens</i> A (α toxin)
	all ages	Fever, lack behind animals, and died in few hours	Necrotic hepatitis, Black disease (gangrene)	<i>Novyi</i> B (usually associated with Fluke)
DIARRHEA IN WEANING ANIMALS	lactating animals	Diarrhea of creamy colour	<ul style="list-style-type: none"> Colibacilar diarrhea Viral diarrhea Parasitic diarrhea 	<ul style="list-style-type: none"> <i>E. Coli</i> Rotavirus <i>Cryptosporidium parvum</i>
		Diarrhea of dark colour	Lamb dysentery	<i>C. Perfringens</i> B (β toxin)
ANOREXIA, DEPRESSION, HIGH FEVER	young animals grazing in frozen meadows	Sudden onset of illness, anorexia, depression, high fever (42°C, 107 F or more), abdominal pain	Bradsot (necrotizing abomasitis)	<i>Cl. Septicum</i> (it can be mixed up with <i>c. perfringens</i> D)
LAMENESS AND LOCAL OEDEMA ON FORELIMBS	all ages (several number of animals affected)	Muscle tissue necrosis of forelimbs, sudden death without other symptoms	Blackleg	<i>Cl. Chauvoei</i>
CUTANEOUS OR MUSCULAR WOUNDS, EMPHYSEMA	all age after wounds or parturition season	Emphysema (not always at the site of infection), high fever	Malignant oedema	Mainly <i>Cl. Sordelli</i> also <i>Cl. septicum</i> , <i>Cl. chaouvei</i>