

# Immediate Response™

Multi Species

Rapidly Restores Digestive Balance

Veterinarian Recommended

## DESCRIPTION:

For symptoms of colic, scours, gut ache, heat exhaustion, dehydration, and exposure to moldy hay or conditions associated with digestive upset.

## FOR USE ON:

Horses, Cattle, Goats, Sheep, Swine, Boars, Sows, Gilts, Llamas, Alpacas, Dogs & Cats.

## PRODUCT ADVANTAGES:

- Veterinarian recommended digestive paste
- First aid for colic symptoms prior to professional diagnosis and treatment
- Safe for all ages of animals
- Designed for immediate response to symptoms of:
  - Scours, gut ache and diarrhea
  - Exposure to moldy hay or forage
  - Stressors-such as hauling, temperature, confined spaces, physical trauma
- Rapidly restores your animal's digestive balance

## GUARANTEED ANALYSIS:

per 10 ml:

Vitamin B<sub>2</sub>..... 1 mg  
Pantothenic Acid..... 10.5 mg  
Vitamin B<sub>6</sub>..... 2.5 mg  
Aspergillus oryzae..... 1.3x10<sup>5</sup> CFU  
Bacillus subtilis..... 3.8x10<sup>5</sup> CFU  
Saccharomyces cerevisiae..... 3.4x10<sup>6</sup> CFU  
Mixed lactic acid bacteria..... 1.3x10<sup>7</sup> CFU

## INGREDIENTS:

Yeast extract, primary dried yeast, mucilage, vegetable oil, dried apple pectin pulp, carrageenan, dried lactobacillus acidophilus fermentation product, dried enterococcus faecium fermentation product, dried lactobacillus casei fermentation product, dried aspergillus niger fermentation extract, dried aspergillus oryzae fermentation extract, dried bacillus subtilis fermentation extract, polysorbate-80, silicon dioxide, d-calcium pantothenate, pyridoxine hydrochloride, riboflavin.



## DIRECTIONS FOR USE:

Equine: 10cc per 1,000 lbs of body weight.  
During crisis give entire 80cc syringe.  
Cattle: 10-15cc per 100lbs of body weight.  
Goats & Sheep: 3cc per 10 lbs of body weight.  
Swine: 1-2cc per 10lbs of body weight.  
Boars/Sows/Gilts: 10cc per 100 lbs of body weight.  
Llamas & Alpacas: 4cc per 10 lbs of body weight.  
Dogs & Cats: 3cc per 10 lbs of body weight.

Feed twice per day. Some animals may require 3 times a day to achieve desired results.

## PACKAGING:

80cc dial-a-dose syringe, 6 syringes per display box, 8 display boxes per master case.  
Syringe UPC# 7-48611-98100-3  
Display UPC# 2-0748611-98100-7  
Case UPC# 1-0748611-98100-0



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**“Immediate Response “ contains ingredients that can help restore and promote a healthy GI tract environment.**

**SYE** (specialized yeast extract derived from the cell wall of the yeast *Saccharomyces cerevisiae*) contains a special type of sugar; Ma that offers binding sites to sugar-seeking pathogens. By using their binding capacity to link with MOS rather than the gut wall, mannan Oligosaccharides (MOS) they have incapacitated themselves. Because MOS does not provide nutrition, the pathogens are unable to grow and colonize. Several studies have been conducted examining the effects of yeast extracts and their derivatives on pathogens in the GI tract. Components of bacterial surfaces called lectins are involved in the onset of enteric and urinary disease by allowing bacteria to adhere to epithelial cells in these sites. Lectins specific for MOS predominate in intestinal pathogens. SYE provides a source for attachment that will absorb bacteria that would otherwise attach to the gut wall. The components of SYE may also help bind toxins in the GI tract. Since SYE is not degraded by digestive enzymes, it passes through the tract with the pathogen(s) attached, preventing colonisation. Some beneficial bacteria such as *Lactobacillus* appear to have enzymes that are complex enough to override this system therefore not adversely affected by SYE.

In vitro studies examining *E.coli* already bound to epithelial cells found that the *E.coli* could be displaced from these epithelial cells within 30 minutes when exposed to a specialized yeast derivative. This demonstrates that SYE; mannan oligosaccharide (MOS) not only prevents the attachment of pathogens to the gut, but may also “clean up” already attached pathogens.

There have also been reports that some components of SYE can have immune modulation effects including a positive influence on the complement system. SYE appears to play a role in the presentation of bacteria antigen to the antibody-producing cell. Immune modulation prepares the immune defenses to respond more quickly and more forcefully to invading pathogens. In a study conducted in Ireland, dogs fed a ration of MOS for one week were then vaccinated for parvovirus, distemper, leptospirosis and adenovirus. The MOS fed dogs had a greater response to the vaccine - as determined by circulating neutrophil and immunoglobulin G concentrations.

SYE may also enhance the maintenance of GI tract integrity. It has been reported that the intestines of animals fed the components of SYE had taller villi and shorter crypts. The villi are where absorption of nutrients takes place.

**Direct-Fed Microbials (DFM's).** Immediate Response Paste contains viable host-compatible DFM's as well as potentiators that not only enhance the growth of the DFM's in the products but also enhance the naturally occurring beneficial present in the GI tract.

**Fungal Derived Enzymes.** By including the most common fungal derived enzymes, digestion is more quickly normalized.

