

## PRODUCT INFORMATION

# Protexin®



### PROTEXIN® PRODUCT INFORMATION

Protexin® Soluble and Protexin® Premium are the most advanced probiotics available. Protexin® helps to alleviate conditions such as diarrhoea and lactose intolerance, helps to strengthen the immune system against infections and enhances Vitamin K production. Protexin® contains multiple strains of probiotic cultures to ensure a well-balanced gut flora. It is safe to use for all animals.

### WHAT ARE THE BENEFITS OF PROTEXIN®?

Apart from its beneficial effect in cases of diarrhoea, Protexin® can be used as a daily supplement to boost the animal's well-being.

Protexin® provides better health through proper, balanced GI flora. A study has shown that a cattle diet supplemented with Protexin® improves feed demand rate<sup>1</sup>. The *Lactobacillus acidophilus* strain in Protexin® can inhibit *E. coli* in cattle<sup>2</sup>. *Enterococcus faecium*, one of the components of Protexin®, can reduce levels of *Clostridium perfringens* in animals<sup>3</sup>. And *E. faecium* has been shown to increase IgA in healthy puppies, enhancing immune function<sup>4</sup>.

### WHY PROTEXIN®?

Protexin® is a multi-strain probiotic. The micro-organisms are encapsulated using a unique process to ensure viability in heat and acidic pH. An *in vitro* study proved that the micro-coating on Protexin® protects the micro-organisms from heat (which would destroy their viability). In addition, the strains have demonstrated stability when placed in an acidic environment (pH2) for up to 2 hours. Stability tests have proven that, when correctly stored, Protexin® has a stable shelf life of 24 months.

Stability report for Protexin Superconcentrate



### References

1. Okumura J., Protexin encourages appropriate growth of feedlot beef cattle, *Animal Husbandry*, Vol 55 No 2; 261-264, 2001
2. Chaucheyras-Durand F. et al., Biotic and abiotic factors influencing *in vitro* growth of *Escherichia coli* O157:H7 in ruminant digestive contents, *Appl Environ Microbiol*, 72(6):4136-4142, 2006
3. Vahjen W & Manner K, The effect of probiotic *Enterococcus faecium* product in diets of healthy dogs on bacteriologic counts of *Salmonella* spp., *Campylobacter* spp. and *Clostridium* spp. In faeces, *Arch Anim Nutr* 57(3):229-233, 2003
4. Benyacoub J. et al., Probiotics as tools to improve health: perspectives for pets, 2006 Nestle Purina Nutrition Forum, Lausanne, Switzerland



## Protexin® Soluble

## Protexin® Premium

Protexin® Soluble is a palatable 7-strain probiotic powder which can be added to milk, water or top dressed onto the animal's food. This completely natural biological product ensures a beneficial balance of digestive tract micro-organisms in all animals. This in turn enables the animal to resist the effects of stress and infections.

Protexin® Soluble:

- Should be given as soon as possible after birth to establish the correct balance of microflora in the digestive system.
- Should be given before, during, & after stress situations (e.g. changes in food, environment, transportation, or surgical procedures).
- Aids in the control and prevention of diarrhoea of non-specific or dietary origin.
- Should be used during, and after, all antibiotic therapy to restore stomach microflora.
- Is safe for use in all animals, including those which are pregnant and lactating.

The enzymes in Protexin® Premium give a more rapid & thorough release of the nutrients in food, leading to lower residue, lower gut volume, less risk of digestive upsets, gas, & the possibility of colic. All horses will benefit from routinely receiving Protexin® Premium to help overcome environmental changes. During anticipated periods of stress the dosage should be increased.

Protexin® Premium provides the following benefits:

- Aids the digestion of starch and fibre;
- Improved digestion results in better coat condition;
- Stimulates the immune system;
- Maintains overall good health and condition, important for fertility and performance
- Maintain mares in good health during pregnancy and increases the supply of valuable colostrum.

### Composition

Protexin® Soluble contains live heat- and acid-resistant natural organisms found in the intestines of healthy animals. Bacteria: *Lactobacillus plantarum*, *Lactobacillus delbrueckii subsp. bulgaricus*, *Lactobacillus acidophilus*, *Lactobacillus rhamnosus*, *Bifidobacterium bifidum*, *Streptococcus salivarius subsp. thermophilus*, *Enterococcus faecium*. Total Viable Count not less than  $2 \times 10^8$  cfu (colony forming units) / gram.

**Note for diabetic patients:** Protexin® Soluble contains dextrose (glucose).

Protexin® Premium contains the following live heat- and acid-resistant natural organisms: *Lactobacillus plantarum*, *Lactobacillus delbrueckii subsp. bulgaricus*, *Lactobacillus acidophilus*, *Lactobacillus rhamnosus*, *Bifidobacterium bifidum*, *Streptococcus salivarius subsp. thermophilus*, *Enterococcus faecium*. Also contains yeast and the enzymes Xylanase and Beta glucanase. Total Viable Count not less than  $2 \times 10^8$  cfu (colony forming units) / gram.

### Directions For Use

Add and mix into milk, milk replacer or water, or simply sprinkle over the animal's food.

- Dogs/Cats: 2g per day
- Hamsters/Rodents: 1/2-1g per day
- Birds: 5-10g per litre drinking water per day
- Piglets/Weaners: 2g per day for 5 days
- Cattle: Calves: 2g per day for 3 days & 1g per day thereafter. Weaned calves & adult cattle: 4g per day
- Lambs: 1g per day

There are no withdrawal periods or any other restrictions on its use. Protexin® Soluble may be fed continuously or a course may be repeated at intervals for maintenance of good health.

Can be top-dressed onto feed.

**Under normal conditions:**

- Horses: 10g per day
- Foals/ponies: 5g per day

**Under stress conditions:**

- When environmental changes and stressful situations (travel, competition or racing, feed changes, etc) are anticipated, feed 20g per day for 5 days beforehand and keep to this raised level as long as considered necessary or as advised by the veterinarian.

### Packing

60g, 250g, 1kg

300g, 1kg

### Storage

Store in a cool, dry place (below 25°C).

### Registration

Reg. No. G1265 Act 36/1947

Reg. No. G2634 Act 36/1947



Manufacturer & Registration Holder  
Kyron Laboratories (Pty) Ltd  
Co. Reg. No. 1990/004442/07  
PO Box 27329 Benrose 2011 South Africa  
Tel 011 618 1544 • Fax 011 618 4402  
kyron@kyronlabs.co.za www.kyronlabssa.co.za