

Easy Reference Sheet

Use of Protexin® in Hand-raised Marsupial Joeys

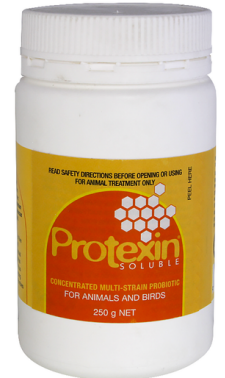
Introduction

Protexin® is a multi-strain probiotic containing live beneficial bacteria developed specifically for animals which aids in improving intestinal microbial balance.

Protexin® has been used by our orphaned koala carers for many years with apparent good success. Carers believe that it has aided in maintaining a balanced digestive system, particularly during times where a joey is more likely to encounter gut flora disturbances. Over recent years, mammal carers hand-raising orphaned macropods, possums and gliders have also had good success with using the product.

It is well recognised that stress can have a significant impact on an animal's health. We believe that adding Protexin® to their diet can help to minimise disruption to the normal intestinal balance. Wildlife carers believe that it has also contributed towards improving the overall health of compromised individuals.

There are different types of Protexin® available, the one commonly used by wildlife carers is the Protexin® Soluble (orange label).



Dose Rate

The following dosage information is adapted from the Protexin® datasheet (as attached). This is a guide only.

Protexin® Soluble (Orange label product)

Species	Individual Dose - Per animal per day	
	Maintenance Dose	Stress Dose
Small orphaned joeys (pouch young) <i>(Antechinus, bandicoots, gliders, and other small mammal species)</i>	0.5g per animal per day equivalent to 1/8 teaspoon per animal per day.	1g per animal per day equivalent to ¼ teaspoon per animal per day.
Orphaned joeys (pouch young and pouch emergence) <i>(Macropods, possums, gliders, koalas)</i>	1g per animal per day equivalent to ¼ teaspoon per animal per day.	2g per animal per day equivalent to ½ teaspoon per animal per day.
Sub-adult and adult mammals <i>(Adult possums, sub-adult/adult koalas, pre-release macropods)</i>	1g – 2g per animal per day equivalent to ¼ to ½ teaspoon per animal per day.	2g – 4g per animal per day equivalent to ½ to 1 teaspoon per animal per day.

It is important to note that the recommended dose rate is based on a measure **PER ANIMAL PER DAY**. The dose is **not** based on the quantity of milk consumed. Larger animals (e.g. adult possums, pre-release macropod joeys, sub-adult/adult koalas) can be given a higher dose, which would be comparable to the manufacturer's recommendation for small to larger dogs (as per attached datasheet).

Calculating a Daily Dose

To correctly administer according to the manufacturer's guidelines:-

- **For milk-fed joeys:** Prepare the daily quota of milk and add the Protexin® dose as outlined above. Dividing the milk between the feeds over a 24-hour period will ensure that the dose is administered over the entire day. For example – if a joey is taking 20mLs milk per day, add ¼ teaspoon of Protexin®. As the joey grows, increase the milk amount but do not increase the amount of Protexin® (unless you are administering the Stress dose).
- **For weaned animals:** Add the Protexin® dose to the supplementary food ensuring that the full amount will be consumed by the animal.

If you are unsure about how to calculate the dose required, please contact your relevant Species Coordinator.

Storage

Protexin® should be stored in an airtight container in the refrigerator. The manufacturer states that if kept refrigerated, the product can be used for 12 months past the expiry/best before date.



PROTEXIN®

PROTEXIN® IS A MULTI-STRAIN PROBIOTIC CONTAINING LIVE BENEFICIAL BACTERIA.

PRESENTATION: There are different types of PROTEXIN®:

- PROTEXIN® POWDER - In feed formula containing 60 million colony forming units (CFU)/g
 PROTEXIN® SOLUBLE - Water soluble formula containing 180 million CFU/g
 PROTEXIN® PASTE - Oral paste formula containing 180 million CFU/g
 PROTEXIN® LIQUID - Oil based formula containing 180 million CFU/mL

ACTIVE CONSTITUENTS: Each g or mL contains: *Lactobacillus acidophilus*, *Lactobacillus delbrueckii* subspecies *bulgaricus*, *Lactobacillus plantarum*, *Lactobacillus rhamnosus*; *Bifidobacterium bifidum*; *Enterococcus faecium*; *Streptococcus salivarius* subspecies *thermophilus*.

PROPERTIES: PROTEXIN® is a blend of live viable microbes which benefits the host animal by improving the intestinal microbial balance. Everyday use of PROTEXIN® helps maintain a balanced digestive system, thus optimising digestion of feed and enhancing your animals' health, naturally. These microbes are safe, non-toxic and residue free.

PROTEXIN® may be used during periods of stress (stresses disrupt the normal intestinal balance), e.g. overcrowding, pregnancy and lactation, scouring and diarrhoea, temperature extremes, transportation, training and exercise, and medication; and following animal husbandry procedures or practices such as antibiotic use, birth, castration, debeaking/dehorning, diet changes, loss of appetite, surgery, vaccination, weaning and worming. PROTEXIN® is compatible with feed ingredients including anthelmintics, coccidiostats, minerals and vitamins, and some antibiotics.

Indications for use (Australia):

- An aid during periods of intestinal dysfunction in all animals, including treatment and control of scouring or diarrhoea, exclusion and suppression of pathogens such as *E. coli*, *Salmonella* spp. and *Aeromonas* spp.
- Post-antibiotic therapy in all animals for the re-establishment of gut microflora following antibiotic usage.
- Improved weight gains and feed conversion in growing pigs and cattle.
- Productivity improvements and reduced mortality in poultry.
- Aids in the establishment of gastrointestinal microflora of physiologically immature animals, e.g. day old chicks, neonatal calves, pigs, foals, lambs and kids, puppies and kittens.

Indications for use (New Zealand):

- An aid during periods of intestinal dysfunction in all animals.
- Post-antibiotic therapy in all animals for the re-establishment of gut microflora following antibiotic use.
- Improved weight gains and feed conversion in growing pigs and cattle.
- Productivity improvements and reduced mortality in poultry.
- Aids in the establishment of gastrointestinal microflora of physiologically immature animals, e.g. day old chicks, neonatal calves, pigs, foals, lambs and kids, puppies and kittens.

DOSAGE AND ADMINISTRATION:

(Australia)

RESTRAINT: PROTEXIN® should not be used in conjunction with Penicillins, Cephalosporins, Tetracyclines, Avoparcin, Gentomycin, Lincomycin, Streptomycin, Tiamulin or Tylosin, but may be used immediately following these antibiotics.

(New Zealand)

RESTRAINT: Using concurrently with some antibiotics may compromise beneficial effects. PROTEXIN® efficacy may be reduced if used in conjunction with some antibiotics. Please contact International Animal Health Products for advice regarding the use of PROTEXIN® in conjunction with antibiotics.

(Australia & New Zealand)

Individual Dose: Use at stress levels for the first 5 days then at the maintenance dose level. **In-Feed:** Refer to label for instructions.

PRODUCT ►	P. POWDER			P. SOLUBLE**		P. PASTE	P. LIQUID	
	INDIVIDUAL DOSE (per head per day)		IN FEED* (kg/tonne)	INDIVIDUAL DOSE (per head per day)		INDIVIDUAL DOSE (per head per day)	INDIVIDUAL DOSE (per head per day)	
	Maintenance	Stress		Maintenance	Stress		Maintenance	Stress
HORSES:	10 g	20 g	1.0	10 g	20 g	10-20 g	10 mL	20 mL
FOALS/PONIES:	5 g	10 g	2.0	5 g	10 g	5-10 g	5 mL	10 mL
CATTLE:	2 g	4 g	0.5-1.0	2 g	4 g	2-4 g	2 mL	4 mL
CALVES:	1 g	2 g	0.4	1 g	2 g	1-2 g	1 mL	2 mL
SHEEP/GOATS:	2 g	4 g	1.2	2 g	4 g	2-4 g	2 mL	4 mL
LAMBS/KIDS:	1 g	2 g	1.4	1 g	2 g	1-2 g	1 mL	2 mL
PIGS:	1-2 g	2-4 g	0.5-0.6	2 g	4 g	2-4 g	2 mL	4 mL
PIGLETS:	1 g	2 g	1.4	1 g	2 g	1-2 g	1 mL	2 mL
DOGS:	1-3 g	2-6 g*	1.5	1-3 g	2-6 g*	1-3 g to 2-6 g	1-3 mL	2-6 mL*
PUPS/KITTENS:	1 g	2 g	1.0-3.0	1 g	2 g	1-2 g	1 mL	2 mL
CATS:	1 g	2 g	1.5	1 g	2 g	1-3 g to 2-6 g	1 mL	2 mL
POULTRY:								
CHICKS					1 g/L**			
BROILERS/LAYERS			0.5-1.5		500 g/500 L**			
CAGED BIRDS:					1 g/L**			1 mL/500 g feed

*Use as a guide only. Rates may vary depending on daily feed intakes. ♦ (Small-2 g, Medium-4 g, Large-6 g). **Add P. Soluble to drinking water – make fresh daily. For other animals contact International Animal Health Products. **NOTE:** A level measure holds around 2 g (small), 25 g (large) (P. POWDER, P. SOLUBLE) & the finger pump delivers 1.5 mL (P. LIQUID).

WITHHOLDING PERIODS: MEAT: NIL; MILK: NIL; EGGS: NIL

TRADE ADVICE: EXPORT SLAUGHTER INTERVAL (ESI): ESI not required (Australia)

POISONS SCHEDULE: EXEMPT (Australia)

REGULATORY STATUS:

Australia: AUSTRALIAN PESTICIDES & VETERINARY MEDICINES AUTHORITY
New Zealand: EXEMPT

PACK SIZES: PROTEXIN® POWDER: 125 g, 250 g, 1 kg, 5 kg, 20 kg, 25 kg
 PROTEXIN® SOLUBLE: 125 g, 250 g, 500 g, 2.5 kg, 25 kg
 PROTEXIN® PASTE: 30 g, 100 g (syringe)
 PROTEXIN® LIQUID: 125 mL, 250 mL, 1 L, 5 L, 25 L

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