

# Pernaease and its use with your pet

## What is Pernaease

Pernaease is a 100% natural marine sourced joint health supplement for dogs. It is a palatable powder which is given daily with your pet's food. Ingredients are freeze dried green lipped mussel, shark cartilage and abalone. These provide a natural source of glucosamine, chondroitin, omega 3 fatty acids and a range of trace elements.

Pernaease is a registered veterinary medicine and as such is fully tested by accredited independent laboratories, both in the raw material stage and the finished product stage, ensuring consistent high quality, effective product.

Pernaease, with its broad range of ingredients, delivers higher levels per dose of glucosamine, chondroitin and essential fatty acids than many other green lipped mussel products.

## When to Use Pernaease

Pernaease can be used in the following circumstances:

- On its own in the initial or less severe stages of osteoarthritis.
- In combination with prescription anti inflammatory / pain relief medication from your veterinarian, in more severe or advanced cases of osteoarthritis.
- As a general preventative joint supplement for dogs not yet showing clinical signs of osteoarthritis. This may be especially applicable to bigger dogs and those breeds more prone to developing the condition.

# Analysis of Pernaease

## INGREDIENTS:

- Green lipped mussel 60%
- Shark cartilage 20%
- Abalone 20%



## PRESENTATION:

250g and 125g tubs with measuring spoon inside each pack

## DIRECTIONS FOR USE:

- Give once daily with food
- Results should be seen within 3-4 weeks
- Long-term use may be beneficial in some dogs
- A 250g jar will last a 20kg dog 145 days

## DOSAGE:

Size of Dog	Up to 10kg	10-20kg	20-30kg	30-40kg	40-50kg
Dose amount	1.2g	1.7g	2.3g	2.8g	3.4g
Measure in scoop	1/3 Measure	1/2 Measure	2/3 Measure	3/4 Measure	1 Level Measure

## TYPICAL ANALYSIS per 2 grams

COMPOSITION: Crude Protein 1.1g, Carbohydrate 0.3g, Total fat 0.11g, Ash 0.28g, Moisture 0.06g, Energy 30kj, Energy 7.16kcal.

TRACE ELEMENTS: Boron 15ug, Calcium 60mg, Copper 18ug, Iron 0.4mg, Magnesium 5mg, Manganese 18ug, Phosphorus 45mg, Potassium 14mg, Selenium 3ug, Sodium 17mg, Zinc 149ug, Taurine 45ug.

TOTAL ESSENTIAL FATTY ACIDS: Omega-3 32.3mg (EPA 19mg, DHA 13mg), Polyunsaturated 10mg, Monounsaturated 23.6mg.



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# PERNAEASE POWDER

Natural Joint Care  
for your Dog



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## Possible signs of osteoarthritis in your pet:

- Lameness
- Reluctance to rise, especially on cold mornings
- Reduced mobility and increased stiffness
- Difficulty jumping or climbing stairs
- Possible change in demeanor
- Reduced activity levels (reluctance to run and play)

If any of the above signs are seen we suggest having your dog examined by your local veterinarian.



## Joint Health and Your Pet

The main components of a joint are the cartilage at each end of the bones, the joint fluid (synovial fluid) and the joint capsule (synovial capsule). In a healthy joint the cartilage and joint fluid provide adequate cushioning between the bones, allowing comfortable, unrestricted movement.

Wear and tear on the joint due to age, degenerative disease or previous injury may result in osteoarthritis. The cartilage of the joint becomes inflamed and eroded, joint fluid is depleted and the synovial membrane may rupture. Pain and inflammation result.

## Aging of Your Pet

All dogs age differently dependent on factors such as size, breed, and genetics. As a general rule larger breeds begin to show signs of old age (such as osteoarthritis) before smaller breeds do. Some owners find it easier to relate to their dog's aging by using one of the many charts or calculators available that compare human and dog years. An example of these follows.



DOG'S AGE IN HUMAN YEARS				
AGE	0-10kg	11-23kg	24-39kg	>40kg
3	20	21	24	26
4	26	27	31	34
5	35	34	38	41
6	40	42	45	49
7	44	47	50	56
8	48	51	55	64
9	52	56	61	71
10	56	60	66	78
11	60	65	72	86
12	64	69	77	93
13	68	74	82	101
14	72	78	88	108
15	76	83	93	115
16	80	87	99	123

Youth / Teenager

Adult

Senior

Geriatric

## How Pernaese Works

*Pernaese acts by:*

- >> Aiding in the control of joint pain and inflammation
- >> Providing the "building blocks" for joint cartilage repair
- >> Stimulating joint fluid production

*The individual active ingredients work as follows:*



**GREEN LIPPED MUSSEL** contains a high concentration of glycosaminoglycans in addition to a range of trace elements (such as manganese and copper) and Omega 3 fatty acids.

Glycosaminoglycans are a principle component of cartilage and the fluid needed for joint lubrication. There are nine classes of glycosaminoglycans, all of which are present in Green Lipped Mussel extract. These include chondroitin sulphates, keratin sulphate and hyaluronic acid. Hyaluronic acid contributes to the viscosity of the joint fluid and along with the other glycosaminoglycans provides flexibility, elasticity and tensile strength to the cartilage.

As dogs age the amount of glycosaminoglycans the body produces declines. A natural source of glycosaminoglycans, such as those found in the Green Lipped Mussel extract, may therefore play a role in supplementing the body's own production for use in the regeneration and healing of damaged or arthritic joints.

Green Lipped Mussel contains Omega 3 marine oils. The specific Omega 3 polyunsaturated fatty acids are eicosapentaenoic, docosahexaenoic and alpha-linolenic acids, all regarded to be natural anti-inflammatory and pain relief agents.



**SHARK CARTILAGE** is an excellent source of chondroitin sulphates, calcium, phosphorus and other trace minerals. Chondroitin sulphate is a glycosaminoglycan and is a key component of cartilage. It has a strong affinity for water and plays a role in the lubrication of joints. As dogs age the levels of chondroitin sulphate in cartilage tend to decline, which can lead to joints becoming less flexible. A natural supplement of chondroitin may aid in the regeneration of worn cartilage in arthritic joints.



**ABALONE** is a natural source of a range of important vitamins and minerals including vitamin B12, zinc, phosphorus and selenium together with lipid glycogen components (involved in the process of joint fluid production).



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