

**PARTICULARS TO APPEAR ON THE OUTER PACKAGE**

**Carton box**

**1. NAME OF THE VETERINARY MEDICINAL PRODUCT**

Osteopen 100 mg/ml Solution for injection for dogs  
Pentosan polysulphate sodium

**2. STATEMENT OF ACTIVE SUBSTANCE**

Each ml contains 100 mg of Pentosan Polysulphate Sodium

**3. PHARMACEUTICAL FORM**

Solution for Injection

**4. PACKAGE SIZE**

10 ml  
20 ml

**5. TARGET SPECIES**

Dogs

**6. INDICATION(S)**

Read the package leaflet before use

**7. METHOD AND ROUTE(S) OF ADMINISTRATION**

For subcutaneous use.  
Read the package leaflet before use.

**8. WITHDRAWAL PERIOD**

Not applicable.

**9. SPECIAL WARNING(S), IF NECESSARY**

Read the package leaflet before use.

**10. EXPIRY DATE**

EXP {mm/yy}

Shelf life after first opening the immediate packaging: 84 days

Once broached, use by:.....

**11. SPECIAL STORAGE CONDITIONS**

Keep the vial in the outer carton in order to protect from light.

**12. SPECIAL PRECAUTIONS FOR THE DISPOSAL OF UNUSED PRODUCT OR WASTE MATERIALS, IF ANY**

Read the package leaflet before use

**13. THE WORDS “FOR ANIMAL TREATMENT ONLY” AND CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE, IF APPLICABLE**

For animal treatment only.

**14. THE WORDS “KEEP OUT OF THE SIGHT AND REACH OF CHILDREN”**

Keep out of the sight and reach of children.

**15. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER**

Chanelle Pharmaceuticals Manufacturing Ltd.  
Loughrea  
Co. Galway  
Ireland

**16. MARKETING AUTHORISATION NUMBER(S)**

Vm 08749/4086

**17. MANUFACTURER'S BATCH NUMBER**

BN {number}

**MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS**

**Label for Bottle**

**1. NAME OF THE VETERINARY MEDICINAL PRODUCT**

Osteopen 100 mg/ml Solution for injection for dogs  
Pentosan polysulphate sodium

**2. QUANTITY OF THE ACTIVE SUBSTANCE**

Pentosan polysulphate sodium 100 mg/ml

**3. CONTENTS BY WEIGHT, BY VOLUME OR BY NUMBER OF DOSES**

10 ml  
20 ml

**4. ROUTE(S) OF ADMINISTRATION**

Subcutaneous injection.

**5. WITHDRAWAL PERIOD**

Not Applicable

**6. BATCH NUMBER**

BN {number}

**7. EXPIRY DATE**

EXP {mm/yy}  
Shelf life after first opening the immediate packaging: 84 days  
Once broached, use by: ....

**8. THE WORDS "FOR ANIMAL TREATMENT ONLY"**

For animal treatment only.

**PACKAGE LEAFLET FOR:  
Osteopen 100 mg/ml Solution for injection for dogs**

**1. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER  
AND OF THE MANUFACTURING AUTHORISATION HOLDER RESPONSIBLE  
FOR BATCH RELEASE, IF DIFFERENT**

Marketing authorisation holder  
Chanelle Pharmaceuticals Manufacturing Ltd.  
Loughrea  
Co. Galway  
Ireland

Manufacturer responsible for batch release:  
Chanelle Pharmaceuticals Manufacturing Ltd.,  
Loughrea,  
Co. Galway,  
Ireland.

And

Labiana Life Sciences, S.A.  
C/Venus,  
26 – Pol. Ind. Can Parellada,  
Terrassa,  
08228 Barcelona,  
Spain.

**2. NAME OF THE VETERINARY MEDICINAL PRODUCT**

Osteopen 100 mg/ml Solution for injection for dogs

Pentosan polysulphate sodium

**3. STATEMENT OF THE ACTIVE SUBSTANCE(S) AND OTHER INGREDIENT(S)**

Each ml contains:

Active substance:	Pentosan Polysulphate Sodium:	100 mg/ml
Excipients:	Benzyl Alcohol E1519	10.45 mg/ml
	Other excipients, q.s.	

A clear pale yellow aqueous solution for subcutaneous administration.

**4. INDICATION(S)**

For the treatment of lameness and pain of degenerative joint disease/osteoarthritis (non-infectious arthrosis) in the skeletally mature dog.

## **5. CONTRAINDICATIONS**

Do not use in the treatment of septic arthritis. In this case, appropriate antimicrobial therapy should be instigated.

Do not use in dogs with advanced liver or kidney impairment, or evidence of infection. Do not use in known cases of hypersensitivity to the active substance or to any of the excipients.

Do not use in the skeletally immature dog (i.e. dogs whose long bone growth plates have not closed).

As pentosan polysulphate has an anticoagulant effect, do not use in dogs with blood disorders, coagulation disorders, bleeding, trauma or malignancy (especially haemangiosarcoma) or during the peri-operative period within 6 – 8 hours of surgery. Do not use in arthritides of immunological origin (e.g. rheumatoid arthritis).

## **6. ADVERSE REACTIONS**

Rarely, reaction to the injection may occur within 24 hours in an apparently healthy animal. In these circumstances treatment should be discontinued and symptomatic relief given.

Experience indicates that in very rare cases, dogs may vomit immediately after injection with pentosan polysulphate. Such dogs generally require no medical treatment and make an uneventful recovery. Further treatment with pentosan polysulphate is not recommended.

A further very rare side effect following administration of pentosan polysulphate sodium in dogs is an apparent mild depression and lethargy lasting up to 24 hours.

Emesis, diarrhoea, lethargy and anorexia have been reported following the use of pentosan polysulphate. These signs may be the result of a hypersensitivity reaction and may require appropriate symptomatic treatment including antihistamine administration.

Administration of the product at recommended dose rates results in increases of activated partial thromboplastin time (aPTT) and thrombin time (TT) which may persist for up to 24 hours after administration in healthy dogs. This very rarely results in clinical effects, but because of the fibrinolytic action of pentosan polysulphate sodium, the possibility of internal bleeding from a tumour or vascular abnormality should be considered if signs develop. It is recommended that the animal should be monitored for signs of blood loss and treated appropriately

Bleeding disorders such as nasal bleeding, haemorrhagic diarrhoea and haematomas have been reported.

Local reactions such as a transient swelling have been observed post injection. Alternatively you can report via your national reporting system.

The frequency of adverse reactions is defined using the following convention:  
- very common (more than 1 in 10 animals treated displaying adverse reaction(s))

- common (more than 1 but less than 10 animals in 100 animals treated)
- uncommon (more than 1 but less than 10 animals in 1,000 animals treated)
- rare (more than 1 but less than 10 animals in 10,000 animals treated)
- very rare (less than 1 animal in 10,000 animals treated, including isolated reports).

If you notice any side effects, even those not already listed in this package leaflet or you think that the medicine has not worked, please inform your veterinary surgeon.

## **7. TARGET SPECIES**

Dogs

## **8. DOSAGE FOR EACH SPECIES, ROUTE(S) AND METHOD OF ADMINISTRATION**

Subcutaneous use.

3 mg pentosan polysulphate sodium / kg bodyweight (equivalent to 0.3 ml/10kg bodyweight) on four occasions, with an interval of 5-7 days.

## **9. ADVICE ON CORRECT ADMINISTRATION**

Administer by aseptic subcutaneous injection only. An appropriately graduated syringe must be used to allow accurate administration of the required dose volume. This is particularly important when injecting small volumes. To establish the appropriate dosage, the weight of the individual animal should be determined prior to administering the veterinary medicinal product.

In the absence of compatibility studies, this veterinary medicinal product must not be mixed with other veterinary medicinal products.

## **10. WITHDRAWAL PERIOD**

Not applicable.

## **11. SPECIAL STORAGE PRECAUTIONS**

Keep out of the sight and reach of children.

Keep the vial in the outer carton in order to protect from light.

Do not use this veterinary medicinal product after the expiry date which is stated on the vial and carton after 'EXP'. The expiry date refers to the last day of the month.

Shelf-life after first breaching the immediate packaging: 84 days.

## **12. SPECIAL WARNING(S)**

### Special warnings for each target species

Do not exceed the standard dose. Increasing the recommended dose may result in exacerbation of stiffness and discomfort.

Because of the fibrinolytic action of pentosan polysulphate sodium, the possibility of internal bleeding from a tumour or vascular abnormality should be considered and appropriate therapeutic action taken.

It has been reported that a dog which had suffered pulmonary lacerations twelve months previously had severe pulmonary bleeding after an injection of pentosan polysulphate sodium. Use with caution in dogs with a history of pulmonary lacerations.

Caution is also recommended in cases of hepatic impairment.

Pentosan polysulphate sodium has an anticoagulant effect.

It is recommended that the Packed Cell Volume (PVC) and capillary filling time should be monitored, when the product is used.

Avoid intramuscular injection because of the risk of haematoma at the injection site.

No more than three courses of four injections should be administered in a twelve month period.

It is recommended that the animal should be monitored for signs of blood loss and treated appropriately. Interrupt the treatment if signs of increased bleeding occur.

A clinical effect may not be observed until after the second injection of the course of treatment.

### Special precautions to be taken by the person administering the veterinary medicinal product to animals:

The preservative, benzyl alcohol, can cause hypersensitivity (allergic) reactions in sensitised people. If you know that you are sensitised, care should be taken when handling this product. If accidental skin or eye contact occurs, rinse affected area immediately with water.

Wash hands after use.

### Pregnancy and lactation:

Laboratory studies in rabbits showed embryotoxic effects associated with a primary effect on the parent at repeated daily doses 2.5 times the recommended dose.

The safety of the product in the pregnant or lactating animal has not been studied, therefore use is not recommended in pregnant or lactating animals.

The product should not be used at the time of parturition due to its anticoagulant effects

### Interaction with other medicinal products and other forms of interaction:

NSAIDs and in particular aspirin should not be used in combination with pentosan polysulphate sodium as they may affect thrombocyte adhesion and potentiate the anticoagulant activity of the product. Corticosteroids have been shown to be antagonistic to a number of actions of pentosan polysulphate sodium. Furthermore, use of anti-inflammatory drugs may result in a premature increase in the dog's activity, which may interfere with the analgesic and regenerative effects of the product.

Do not use concurrently with steroids or non-steroidal anti-inflammatory drugs, including aspirin and phenylbutazone or within 24 hours of such administration. Do not use in conjunction with heparin and other anti-clotting agents.

**Absorption:** In the dog, a peak plasma concentration of 7.40 µg-eq pentosan polysulphate sodium/mL is achieved 15 minutes after subcutaneous administration.  
**Distribution:** Pentosan polysulphate sodium binds many plasma proteins with a variable strength of association and dissociation resulting in a complex equilibrium between bound and unbound drug. Pentosan polysulphate sodium is concentrated in the liver and kidneys and reticuloendothelial system. Low levels occur in connective tissue and muscle. In studies carried out with rabbits, it has been shown that therapeutic concentrations of the active ingredient remain in the joint cartilage for 4 - 5 days after administration. The volume of distribution in dogs is 0.43 L.

**Biotransformation:** Desulfation of pentosan polysulphate sodium occurs in the hepato-reticulo-endothelial system, the liver being the main site of activity. Depolymerisation may also occur in the kidney.

**Elimination:** The product is eliminated with a half-life of approximately 3 hours in the dog. Forty eight hours after injection approximately 70% of the dose administered is eliminated via urine.

**Incompatibility:** In the absence of compatibility studies, this veterinary medicinal product must not be mixed with other veterinary medicinal products.

Overdose (symptoms, emergency procedures, antidotes):

At three times the recommended dose a transient increase in bleeding time of about 3 to 4 hours duration has been observed. Repeated daily overdoses of five times the recommended dose or more resulted in anorexia and depression, which were reversible upon withdrawal of the drug.

At overdose there may be hepatocellular damage and an associated, dose-dependent, elevation in ALT.

Increases in aPTT and TT are dose-dependent. At repeated doses greater than five times that recommended, these increases may persist beyond 1 week after administration in healthy dogs. Signs associated with these defects may include bleeding into the gastro-intestinal tract, body cavities and ecchymoses. At repeated doses greater than ten times that recommended there may be fatality as a result of gastro-intestinal haemorrhage.

If overdose occurs dogs should be hospitalised and observed and supportive therapy provided as deemed necessary by the veterinarian.

**13. SPECIAL PRECAUTIONS FOR THE DISPOSAL OF UNUSED PRODUCT OR WASTE MATERIAL, IF ANY**

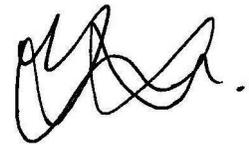
Any unused veterinary medicinal product or waste materials derived from such veterinary medicinal products should be disposed of in accordance with local requirements.

**14. DATE ON WHICH THE PACKAGE LEAFLET WAS LAST APPROVED**

**15. OTHER INFORMATION**

Pack size: 10 ml and 20 ml vials.  
Not all pack sizes may be marketed.

For any information about this veterinary medicinal product, please contact the local representative of the marketing authorisation holder.

A handwritten signature in black ink, consisting of several loops and a final horizontal stroke.

Approved: 23 January 2023