

# Canine Frozen Plasma (FP)

*For animal treatment only*



## Presentation:

Canine Frozen Plasma (FP) is plasma which has been separated from whole blood and frozen more than 24 hours post collection or is expired Fresh Frozen Plasma (more than 12 months from its collection date but less than 5 years). It contains plasma proteins including albumin and Vitamin K dependent clotting factors II, VII, IX and X.

One Standard Unit is approximately 200ml; One Half Unit is approximately 100ml. These contain Frozen Plasma in CPD anticoagulant.

## Uses:

Frozen Plasma is indicated for the treatment of specific coagulation factor deficiencies (including anticoagulant toxicities) and plasma protein deficiencies. Frozen plasma should NOT be used for routine volume expansion.

## Dosage and Administration:

Frozen Plasma is intended for intravenous use only.

**Dosage:** The standard recommended dose for clotting factor deficiencies is 10-20 ml/kg twice daily. However every patient should be monitored as to their individual response and the required dose may need to be more or less than this standard dose. Patients should continue to be treated until appropriate resolution of clinical signs.

**Rate of Administration:** The calculated dose should be given within 4 hours to normovolaemic patients. Hypovolemic patients may tolerate or require transfusion more rapidly. Frozen Plasma should be used with caution and rapid transfusion should be discouraged in patients with cardiac disease or risk of circulatory embarrassment.

**Administration:** Frozen Plasma packs once thawed and breached for use must be used within 4 hours and any product remaining after this time discarded.

**Always administer using a blood giving set** or suitable inline blood filter. Frozen Plasma needs to be thawed to room temperature before administration. Do not mix or administer any other intravenous drugs or products through the same IV line. 0.9% saline ONLY can be used to flush IV lines and catheter.

**Monitoring:** The infusion should be commenced slowly and the patient monitored closely (see adverse reactions). It is recommended that patients be monitored using a transfusion record form, available to download from Pet Blood Bank UK's website.

## Precautions, Warnings and Adverse Reactions:

Canine Frozen Plasma is for use in puppies and adult dogs only.

**Precautions:** Inspect before use. If you have any concerns please contact Pet Blood Bank UK for further advice.

**Handling Precautions:** In case of accidental contact with skin, wash affected areas thoroughly with warm soapy water. Unused product and empty pack should be discarded and disposed of as clinical waste.

**Warning:** Care should be taken to avoid volume overload.

In spite of serological and PCR testing performed on a proportion of the donors, a risk of transmitting infectious agents to the patient is present. Careful donor selection, care, and available laboratory tests do not eliminate this hazard.

## Adverse Reactions to Frozen Plasma:

Acute and delayed, immunological and non-immunological transfusion reactions can occur with products of this type. These can manifest a variety of clinical signs. If during the transfusion, tachycardia, increased temperature, hyperventilation, emesis, hives or trembling occurs slow the transfusion down. Categorise the type of reaction and treat appropriately. Should serious symptoms continue the transfusion should be abandoned.

Delayed reactions can occur days to weeks post transfusion. All potential transfusion reactions should be reported immediately using a potential transfusion reaction form, available to download from Pet Blood Bank UK's website.

**Storage:** Frozen Plasma must be stored at  $-18^{\circ}\text{C}$  or below. A chest freezer is preferred due to the improved temperature stability offered. Freezers with a defrost cycle must not be used. The lower the storage temperature the more reliable the retention of the coagulation factors within the product.

**Leakage:** If leakage becomes apparent the entire pack must be discarded.

**Shelf Life:** Frozen Plasma has a shelf life of 5 years from date of collection. The product label indicates the expiry date. Blood products must not be administered to a patient after their expiry date. Once expired they should be discarded into clinical waste.

**Warning:** Remove carefully from the freezer and protective packaging, as the pack becomes quite brittle when frozen and may easily crack or be otherwise damaged through rough handling. To prepare for administration passive warming at room temperature is recommended. Where active warming is required do NOT use a microwave oven. Place in a waterproof zip lock bag and immerse the bag in a water bath of not more than  $37^{\circ}\text{C}$ .

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## Non-Food Animal Blood Bank Authorisation: No. Abb30549/8000

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