

HYPERMUNE® EQUINE PLASMA

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PRESENTATION: HYPERMUNE is frozen equine plasma for intravenous transfusion, containing equine IgG \geq 24g/l, equine Total Protein \geq 50g/l, in a 1 litre PVC with DEHP human plasma bag and is for single use only. It contains the excipient Acid Citrate Dextrose-A to ensure citrate content 10 - 20mmols/l

INDICATIONS FOR USE: For foals with Failure of Passive Transfer To raise the level of circulating IgG in neonatal foals which have been shown to have low levels (less than 4g/l). The raised level has been demonstrated approximately 24 hours after administration but the duration of the effect is not known.

CONTRAINDICATIONS: There are no absolute contraindications.

ADVERSE REACTIONS It should be noted that ACD-A is an excipient and that excess citrate may cause a reaction in the recipient foal. This may be seen as muscle fasciculations, weakness and cardiac abnormalities.

Transfusion Reactions are very rare; signs include tachycardia, hyperventilating and trembling.

Anaphylaxis is very rare, but can occur with products of this nature. Signs include tachycardia, hyperventilating and trembling, or other signs such as colic, pyrexia, cardiac arrhythmias, urticaria and collapse.

Volume Overload is a very rare but possible hazard of plasma transfusion especially if the administration is carried out too quickly. Signs include respiratory distress, hyperventilation, staggering and collapse when in standing restraint. Additionally, if foal is in lateral recumbency froth may be seen at the nostril.

USE DURING PREGNANCY AND LACTATION: Do not use in pregnant or lactating horses.

TARGET SPECIES: Horses, foals 24 hours to 6days.

DOSAGE AND METHOD OF ADMINISTRATION: For foals with Failure of Passive Transfer Hypermune may be administered to foals from 24 hours to 6 days of age where it has been shown after testing that they have low levels of serum IgG (less than 4 g/l). The dose required is one litre for a 50 kg foal (and pro rata, i.e. 20 ml per kg).

A blood sample should be collected from the foal approximately 24 hours later and re-tested for the level of serum IgG. If this is still low, a further dose may be administered. This should be given within 24 – 48 hours of the first administration and be given in the same manner as the first (intravenously, via a blood giving set, over 15 - 20 minutes).

Method of administration The required dose is administered via a catheter placed in the jugular vein using a blood giving set equipped with a mesh filter. The product should be administered slowly, particularly at the start, and administration should take 15 – 20 minutes. Throughout the administration, the foal should be monitored for signs of adverse reactions.

Thawing should not take place in a microwave oven. The litre bag of plasma should be immersed only in warm water at not more than 40°C. A water bath such as a sink full of domestic warm water is ideal. As the plasma thaws and the water cools, more warm water may be added as required but hot water (not greater than hand hot) must be avoided as it will damage the proteins. The entire litre of plasma should be brought slowly to body temperature before use to ensure all the cryoprecipitate is dissolved. Under optimum conditions this whole process may take 2-2½ hours. Occasionally small amounts of fibrin may still be seen floating in the plasma. It is not significant but must be filtered out by the filter in the blood administration set. Inspect for leakage and if apparent on thawing the entire contents must be discarded.

WITHDRAWAL PERIOD: Zero days

SPECIAL PRECAUTIONS FOR STORAGE: Frozen at $-25^{\circ}\text{C} \pm 5^{\circ}\text{C}$. HYPERMUNE should be handled carefully when being unpacked and stored in the freezer. The bubble-wrap should not be removed as it protects the brittle frozen plastic which is susceptible to damage from careless handling such as being dropped or knocked in the freezer. It should be stored in a freezer at $-25^{\circ}\text{C} \pm 5^{\circ}\text{C}$ until required. Once thawed, the plasma must be used immediately or stored in a refrigerator and used within 24 hours. Do not use after the expiry date stated on the label.

Keep out of the reach and sight of children.

To be supplied on a veterinary prescription

SPECIAL WARNINGS: It is recommended that no other immunological product be administered within 14 days following administration of HYPERMUNE apart from tetanus antitoxin which may be administered simultaneously but not intravenously. As with colostrum derived passive immunity, the passive immunity transferred by HYPERMUNE may interfere with response to vaccine. It is recommended that this is considered when starting a vaccine programme with due adherence to the vaccine manufacturer's instructions.

SPECIAL PRECAUTIONS FOR THE DISPOSAL OF UNUSED OR WASTE PRODUCT: Any unused veterinary medicinal product and administration set or waste materials should be disposed of as clinical waste.

For further information visit www.veterinaryimmunogenics.com

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