

# HYPERMUNE NEWS

Our dedication is to

**Quality**

**Safety**

**Efficacy**

&

**An uncompromising high standard of service at all times**

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Rhodococcus equi and on site ELISA Test

Plasma handling, storing, thawing & warming

Septic foals and equine plasma

Failure of Passive Transfer Transfer

UK and International Shipments

The Veterinary Medicines Regulations 2005 SI 2005/2745

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## HYPERMUNE – RE



## CONTENTS

High levels of specific antibody to Rhodococcus equi.  
Equine IgG >24g/l  
Equine Total Protein > 50g/l  
+ All the benefits of plasma

Our purpose is to promote all the benefits of immunoprophylaxis and immunotherapy and to be established as the premier producer of the finest animal plasma in the world.

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## EQUINE PLASMA PRODUCTS

**Hypermune**

**Hypermune-RE**

**Hypermune-J**

**Hypermune-RV**

We welcomed to V.I.L in August Miss Tamsin Dawson BSc (Hons) who has joined as part of our Knowledge Transfer Partnership scheme which operates in conjunction with the University Of Sunderland. Her work is chiefly based in our on site laboratory which has been built to GLP specifications.

We are also pleased to announce the arrival of four new donor horses during

Please note that normal shipping schedules cannot be met over Christmas and New Year holiday periods because national holidays occur on Monday 26th December, Tuesday 27th December and Monday 2nd January.

**WE ARE, THEREFORE, UNABLE TO SHIP FROM THURSDAY 22ND**

Hypermune plasma is produced, Quality Control tested, stored and distributed in compliance with the exacting standards of Good Manufacturing Practice. Veterinary Immunogenics Ltd no longer supplies Hypermune products through Eurovet ApS, Denmark preferring to supply directly to the Veterinary Surgeon. Quality Assurance is thus guaranteed.

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## RHODOCOCCLUS EQUI ELISA

Veterinary Immunogenics Ltd (VIL) has developed a validated quantitative Enzyme Linked Immunosorbent Assay (ELISA). The assay is used as a Quality Control test on site in the company's ELISA laboratory.

This assay has potential for other uses, too e.g.,

- The immunological evaluation of foal *R. equi* antibodies.
- As an indicator of sero conversion in young foals and thus an indicator of challenge which enables more beneficial timing of plasma transfusion.
- As an aid to establishing "protective" levels in foals.

If you are interested in submitting samples please contact [tombarr@veterinaryimmunogenics.com](mailto:tombarr@veterinaryimmunogenics.com)

**SAFETY STUDY** Samples from the 2004 safety study (commissioned by VIL at a GLP site in compliance with EU regulations) have now been analysed using the test. The results of two foals (fig. 1 below) demonstrate evidence of the significant augmentation of *R. equi* antibody levels post Hypermune RE transfusion, which is increased further by a second transfusion at day 21. This is in contrast to the control foal where a steady decline in maternally derived anti-*R. equi* antibody levels can be seen up to day 35. This supports work by Sheoran et al. (2000) who reports the half life on maternally derived IgG to be 32 days. (TD 2005)

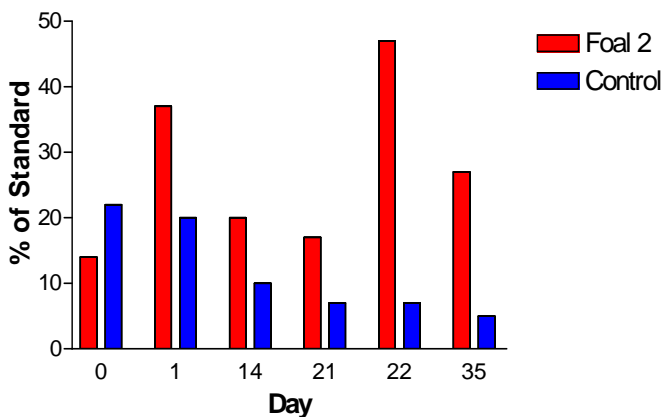


Fig.1: *R. equi* antibody levels are expressed as a percentage of in house standard. Test foal received plasma on day 0 and day 21; control foal received saline on day 0 and day 21. Foals were sampled on days 0 (just before transfusion), 1, 14, 21 (just before transfusion), 22, and 35.

Hypermune products are expensive ~  
maximise the benefits by training your staff to  
handle, store, warm, & thaw  
without damage.

Additional guidelines for permanently displaying  
on your freezer are being included with all con-  
signments.

**SEPTIC FOALS** Equine plasma is beneficial in the treatment of septic foals, it is suggested in a recent publication in The Australian Veterinary Journal.(1) Improved neutrophil function as indicated by the oxidative burst activity was observed. The oxidative burst activity was lower in septic foals than healthy foals but this became significantly increased after plasma transfusion in the septic foals.

## Hypermune-J is the plasma of choice for septic foals

1. McTaggart, C., Penhale, J. and Raidal, S.L. (2005) Effect of Plasma Transfusion on Neutrophil Function in Healthy and Septic Foals. Australian Veterinary Journal.

**FAILURE OF PASSIVE TRANSFER** may require more than one administration of Hypermune to sustain satisfactory levels of foal serum IgG. The results of a recent study, indicate that FPT foals may benefit from a second litre at 3-4 weeks old to close the window of susceptibility to septic challenge. This concurs with the literature that foal serum IgG increases naturally only after 8-10 weeks of age. (Veterinary Immunology – Tizzard 7th Edition 2000.)

**REGULATIONS** The Veterinary Medicines Regulations 2005 SI 2005/2745 are responsible for many changes affecting veterinary surgeons but they are also having a massive impact on manufacturers of Veterinary Medicines. The VMD's own prediction is that the new regulations would have a massive adverse effect on this company. We are pleased to say harmonious, on going negotiations are finding ways to help mitigate this.

## ORDERS, DESPATCH & SHIPPING

**United Parcel Service (UPS)** our main international carrier, has a facility to inform you by email of your shipment's progress. Please supply your email address and contact name when you next order to allow us to update our database.

In emergencies UPS can ensure delivery in Europe by either 9am or 12 noon, Tuesday to Friday, provided **the order is placed by 10.30am**. These higher levels of service do incur additional charges but ask for details when necessary.

**Interlink Express** guarantee delivery to all UK customers before the end of the next working day. In addition they offer delivery by 9.30am, 12 noon, 3pm and Saturday delivery. **Please ensure that we receive UK orders before 3.30pm.**

EVERY EFFORT IS MADE TO ENSURE THAT PLASMA PRODUCTS ARE WITH THE CUSTOMER AS SOON AS POSSIBLE.

We ask you to appreciate that adverse weather conditions can affect shipping schedules. It is advisable to keep a small number of Hypermune products in stock if possible.

Wishing you a very merry  
Christmas and best wishes for  
the New Year

