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# Dechra Veterinary Products

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## VETIVEX® 11 SOLUTION FOR INFUSION (COMPOUND SODIUM LACTATE INTRAVENOUS INFUSION BP (VET))

**Presentation** Clear, colourless solution for infusion containing:

Sodium lactate 0.317 % w/v

Sodium chloride 0.600 % w/v

Potassium chloride 0.040 % w/v

Calcium chloride dihydrate 0.027 % w/v

Approximate ionic content in millimoles per litre:

Sodium 131 mmol/L

Potassium 5 mmol/L

Calcium 2 mmol/L

Bicarbonate (as lactate) 29 mmol/L

Chloride 111 mmol/L

Excipients: Water for injection; hydrochloric acid, dilute.

**Uses** This product is administered by intravenous infusion for the treatment of dehydration and metabolic acidosis in cattle, calves, horses, dogs and cats. It may be used to correct volume depletion (hypovolaemia) resulting from gastrointestinal disease or shock.

**Dosage and administration** For intravenous administration.

The infusion should ideally be warmed to approximately 37°C prior to administration.

The volume and rate of infusion will depend upon the clinical condition, existing deficits of the animal, maintenance needs and continuing losses.

Generally aim to correct hypovolaemia by 50 % initially (ideally over 6 hours but faster if necessary) and reassess by clinical examination.

Deficits are generally in the range of 50 ml/kg (mild) to 150 ml/kg (severe). An infusion rate of 15 ml/kg/hour is recommended in the absence of shock (range 5-75 ml/kg/hour).

In shock, high initial infusion rates, up to 90 ml/kg/hour, are needed. High infusion rates should not be continued for longer than 1 hour unless renal function and urine output are restored. The maximum infusion rate should be decreased in the presence of cardiac, renal and pulmonary disease.

## DIRECTIONS FOR USE

### VISUAL INSPECTION

1. Ensure that the solution is clear and free from particles, and that the container is undamaged (check for leaks). If you regard the integrity of the pack as suspect, discard solution.

2. Read all precautionary notes (label and package leaflet) and check the expiry date before use.

### PACK PREPARATION

1. Warm the pack to approximately 37°C.

2. Remove the pack from the protective overwrap by tearing downwards from the serrated edge.

3. Carefully straighten hanger and ports if necessary.

4. Remove the port plug protecting the sterile giving port. Do this by twisting off the top section while holding the bottom section.

5. Insert the administration set fully to produce a leak-proof connection and suspend the bag from an infusion stand.

6. An air inlet is not required.

7. Prime and regulate the administration set in accordance with the manufacturer's instructions. If the administration set becomes blocked, do not pump solution back into the pack, replace equipment.

### AFTER USE

1. The solution does not contain an antimicrobial preservative and is intended for single use only. Discard any unused solution.

2. Any unused product or waste material should be disposed of in accordance with national requirements.

### USE OF THE COMBI PORT

The combi port permits two Vetivex 11 combi bags to be connected in sequence so volumes greater than 5 litres may be administered during a single transfusion. Each combi port is protected by a snap off cover. This should be removed from each of two Vetivex 11 combi bags. One spike from each end of a double spike connector unit should be pushed firmly through the combi port rubber septum of each of the bags. Suspend the bags (one higher than the other) from an infusion stand. To insert the administration set into the giving port of the lower bag, continue as from point 4 above.

**Contra-indications, warnings, etc** Lactate-containing solutions will not be utilised effectively in animals with hepatic impairment and it is undesirable to use this product in animals with metabolic alkalosis.

A risk of thrombosis with intravenous infusion should be considered.

Maintain aseptic precautions.

This product should be warmed to approximately 37°C prior to the administration of large volumes, or if the administration rate is high, in order to avoid hypothermia.

Do not use unless the solution is clear, free from visible particles, and the container is undamaged.

This product does not contain an antimicrobial preservative. It is intended for single use only and any unused contents should be discarded.

This product should be used with caution in animals with cardiac or renal impairment as sodium overload may occur.

**Adverse reactions:** Excessive infusion rates can cause restlessness, moist lung sounds, tachycardia, tachypnoea, nasal discharge, coughing, vomiting and diarrhoea.

**Use during pregnancy, lactation or lay:** Use under veterinary supervision.

**Interactions and incompatibilities:** This product is incompatible with methylprednisolone, and sodium lactate or sodium bicarbonate intravenous infusions.

**Overdose:** Monitor fluid output.

**General precautions:** For animal treatment only.

**Withdrawal periods:** Cattle: meat/milk - zero days. Horses: meat - zero days.

**Pharmaceutical precautions** Do not store above 25°C. Do not freeze. Keep the container in the outer carton. Keep out of the reach and sight of children.

Use immediately. This product does not contain an antimicrobial preservative. For single use only. Discard unused contents.

*Shelf life of the veterinary medicinal product as packaged for sale:* 100 ml - 18 months; 250 ml, 500 ml, 1000 ml, 2000 ml, 3000 ml and 5000 ml - 2 years.

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

**Legal category** POM-V

**Packaging Quantities** Presented in clear polyvinylchloride (PVC) infusion bags, overwrapped with polypropylene, in cartons of 50 x 100 ml, 20 x 250 ml, 20 x 500 ml, 10 x 1000 ml, 4 x 2000 ml, 4 x 3000 ml and 2 x 5000 ml.

Not all pack sizes may be marketed.

All pack sizes have two ports. In place of the additive port on the 5000 ml Vetivex 11 combi pack is a combi port. This enables two such bags to be connected in sequence and volumes greater than 5000 ml to be administered during one infusion.

**Further information** Also known as Hartmann’s solution.

ATC Vet Code: QB05BB01 Electrolytes.

**Pharmacodynamic properties:** This product replaces depleted water and electrolytes when administered via the intravenous route, to correct water imbalance in dehydration, and restore electrolyte and acid-base balance. It will restore plasma volume and correct metabolic acidosis, as the hepatic metabolism of lactate yields bicarbonate slowly enough to prevent a counter-imbalance of alkalosis.

To be supplied only on veterinary prescription.

Veterinary medicinal product authorised for use in UK and IE.

**Marketing authorisation number** VM 10434/4048

<p><b>Requested by:</b> kate.gittins@dechra.com  <b>Creation date:</b> 4/11/2009 11:15:9 (UK)</p>	<p><b>Approved datasheets found:</b> 1  <b>Approved for book but not on website:</b> 0  <b>Datasheets marked as draft (ignored):</b> 0</p>
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Product	Company	Cattle Milk	Cattle Meat	Sheep Meat	Pigs Meat	Poultry Meat	Poultry Eggs	Fish Meat	Notes
Vetivex 11 Solution for Infusion (Compound Sodium Lactate Intravenous Infusion BP (Vet))	Dechra Veterinary Products	Zero days	Zero days	-	-	-	-	-	Horse meat: Zero days

# Directory of participants

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# List of Products by Therapeutic Indication

## PHARMACEUTICALS

### Dietary supplements and fluid metabolites

#### *Oral rehydration and fluid replacements*

- Vetivex 11 Solution for Infusion (Compound
- Sodium Lactate Intravenous Infusion BP
- (Vet) 1

## List of Products by Species

Please note that a species in brackets after a product name may not necessarily be a part of that product name but is intended to make the index easier to use.

### Cats

Vetivex 11 Solution for Infusion (Compound Sodium  
Lactate Intravenous Infusion BP (Vet)) 1

### Dogs

Vetivex 11 Solution for Infusion (Compound Sodium  
Lactate Intravenous Infusion BP (Vet)) 1

### Cattle

Vetivex 11 Solution for Infusion (Compound Sodium  
Lactate Intravenous Infusion BP (Vet)) 1

### Horses and other equidae

Vetivex 11 Solution for Infusion (Compound Sodium  
Lactate Intravenous Infusion BP (Vet)) 1

# List of Products by Active Ingredients

This index of non-proprietary names (active ingredients) is provided to enable users of the Compendium to identify the brand names of relevant products when only the non-proprietary names are known.

It should be noted that although different products may contain the same active ingredient this does not imply that they are equivalent in regard to bioavailability or therapeutic activity.

Some products contain a number of ingredients and it has not been possible in every instance to identify such products by a reference in this index to each ingredient.

## Key

Non-proprietary name in bold type. Proprietary name in ordinary type.

### **Calcium Chloride Dihydrate**

Vetivex 11 Solution for Infusion (Compound Sodium Lactate Intravenous Infusion BP (Vet)) 1

### **Potassium Chloride**

Vetivex 11 Solution for Infusion (Compound Sodium Lactate Intravenous Infusion BP (Vet)) 1

### **Sodium Chloride**

Vetivex 11 Solution for Infusion (Compound Sodium Lactate Intravenous Infusion BP (Vet)) 1

### **Sodium Lactate**

Vetivex 11 Solution for Infusion (Compound Sodium Lactate Intravenous Infusion BP (Vet)) 1

# Alphabetical Index of Products

Vetivex 11 Solution for Infusion  
(Compound Sodium Lactate  
Intravenous Infusion BP  
(Vet)) 1