



## COMMITTEE FOR VETERINARY MEDICINAL PRODUCTS

### POTASSIUM GLYCEROPHOSPHATE

#### SUMMARY REPORT

1. Potassium glycerophosphate is used as a source of potassium and phosphate in animals deficient in these substances. It is administered, together with other glycerophosphates, by the oral route in cattle and horses. The recommended dose is up to 1.5 g per animal per day by the oral route. The equivalent dose in mg/kg bw per day was not provided.
2. The potassium cation is an essential electrolyte that is important for the maintenance of intracellular osmotic pressure and for the maintenance of cell membrane potentials, particularly in electrically excitable tissues. It is a normal component of diet and is particularly abundant in fruit and vegetables. The recommended daily intake varies from 350-1275 mg in children to 1875 and 5625 mg in adults. In the United Kingdom, the reference nutrient intake (RNI) is 3.5 g/day for adults.
3. The potassium ion itself possesses almost no toxicity; any toxicity of the salts is associated with the anion. Glycerophosphate is a natural organic anion present in plants and animals. It is rapidly metabolised by the normal pathways of carbohydrate metabolism.
4. Potassium glycerophosphate is well absorbed after oral administration to humans. Potassium is excreted mainly by the kidneys; the capacity of the kidneys to conserve potassium is poor and urinary excretion continues even when there is severe bodily depletion.
5. The closely-related substance magnesium glycerophosphate has already been placed in Annex II of Council Regulation (EC) 2377/90 for all food-producing species.

#### Conclusions and recommendation

Considering that:

- both potassium and glycerophosphate are normal components of the diet;
- compared with the intake from other dietary sources, the veterinary medicinal use of potassium glycerophosphate should not result in a significant increase in consumer intake;

the Committee concludes that there is no need to establish an MRL for potassium glycerophosphate and recommends its inclusion in Annex II of Council Regulation (EEC) 2377/90 in accordance with the following table:

Pharmacologically active substance(s)	Animal species	Other provisions
Potassium glycerophosphate	All food producing species	