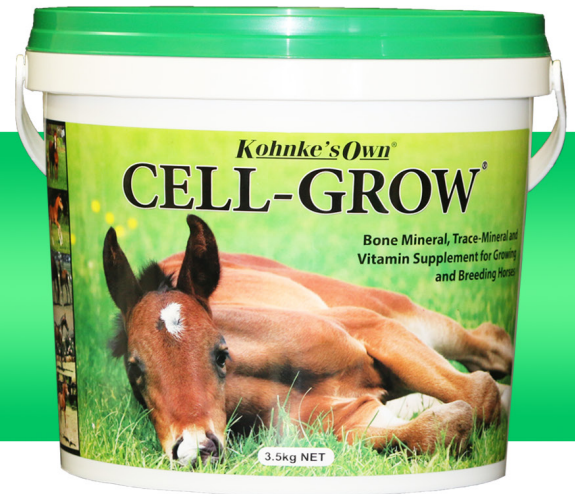


Kohnke's Own[®] **CELL-GROW**[®]



Questions and Answers

Written by Dr John Kohnke BVSc RDA

Cell-Grow is formulated from three separate Supplet[®] pellets, providing bone minerals, all essential trace minerals and vitamins, blended in a specific ratio to help make up shortfalls in pasture and 'hard' feed diets of growing horses, pregnant and lactating mares.

Cell-Grow is especially designed to assist in correcting imbalances and low levels of calcium and phosphorus to maintain an accepted calcium to phosphorus ratio. It is the ideal supplement to maintain the health of the mare and unborn foal, improve milk quality and assist with body, bone and joint development.

Growing Horses:

Q. It is essential to include a balanced vitamin and mineral supplement such as Cell-Grow in a growing horse's diet. Why?

A. Cell-Grow provides the foundation nutrients for optimum body and bone development in young horses in their formative years. Through modern domestication, foals are often denied access to large grazing areas with a wide range of plant species which historically provided growing horses with the nutrients they required. As well as this demands for increased size and strength in foals has resulted in an added awareness of the importance these vitamins and minerals have in the growing horse's diet. Often pasture, hay and grain based diets are low or inadequate in the nutrients required by growing horses. Therefore, they require specific nutritional supplementation to offset the reduction in pasture access and variety, as well as meet the nutrient needs for increased growth and size.

Q. Until what age should Cell-Grow be included in a growing horse's ration?

A. Cell-Grow should be provided in a growing horse's ration until 24-30 months of age. Once the horse has reached this age, the high vitamin and mineral requirements necessary for growth are reduced to a maintenance level. Despite the reduction in nutritional requirements for growth, a mature horse should still be supplemented with a vitamin and mineral supplement to make up for shortfalls in pasture, hay and grain diets as well as to meet the demands of exercise. Once maturity has been reached, Cell-Grow can be replaced with Cell-Perform which is formulated for working horses.

Pregnant and Lactating Mares:

Q. Cell-Grow should be included in a mare's ration from 6 months of pregnancy and is especially important during the last 3 months of pregnancy. Why?

A. Providing Cell-Grow to a pregnant mare will help to ensure good health and vitality. Cell-Grow is also important for sound growth and development of the unborn foal, particularly where pastures and feeds are low in trace minerals and essential vitamins.

During the last three months of pregnancy, the unborn foal goes through a period of rapid development and doubles in size. This rapid phase of growth significantly increases the nutrients required to pass through the foetal membranes. It is essential to provide additional copper, zinc, manganese, selenium and vitamin A for joint development and liver storage in the unborn foal. Liver storage is vital to compensate for the low levels of these bone and joint forming nutrients in the mare's milk.

During the last 3 months of pregnancy, the mare also needs to build up her own reserves for the increased demands required for milk production after foaling. Supplementation of Cell-Grow will also assist by providing phosphorus, selenium, Vitamin A and E to help maintain fertility during the first few months after foaling.

Q. Why is it important to continue supplementing with Cell-Grow throughout lactation?

A. Lactating mares have the highest nutrient demand compared to any other stage of their lives. During peak lactation (4-10 weeks after foaling), a mare can produce 3-4% of her body weight in milk per day, which in a 500kg horse is equivalent to 15-20 litres. Inadequate nutrition can have a direct effect on milk production, but also on fertility and conception. Quality milk production requires sufficient amounts of calcium, phosphorus, potassium and zinc in the mare's diet. Phosphorus, selenium and vitamin A and E have important roles in maintaining fertility in the mare and often pasture, hay and grain based diets are low or inadequate in these important trace-minerals and vitamins. Cell-Grow provides the required levels of bone minerals, trace minerals and vitamins to ensure dietary shortfalls are corrected, optimising overall health of both the mare and foal. Cell-Grow is also an ideal paddock supplement for 'creep' feed mixes and shared mare and foal rations. It is non-dusty, does not sift out or blow out of paddock feeders and mixes well with grain or pelleted feeds.

Pregnant Mares, Lactating Mares & Growing Horses:

Q. Cell-Grow contains an optimum ratio of calcium to phosphorus. Why is this important?

A. The calcium to phosphorus ratio of 1.8 : 1.0 in Cell-Grow has been specifically formulated to match the mineral balance in both grass and legume pastures, as well as diets supplemented with lucerne or meadow hay. When diets contain low levels of calcium and phosphorus, Cell-Grow provides a balanced source to correct the Ca:P ratio. An optimum ratio is essential to ensure good bone formation and development in the growing horse. It is also important to maintain body and skeletal strength in the mare. Both vitamin A and D complement the bone minerals in Cell-Grow to ensure optimal absorption and utilisation.

Q. When possible, why is it important to divide the dose of Cell-Grow between morning and evening feeds?

A. Pregnant and lactating mares, along with growing horses, require a higher intake of vitamins and minerals to meet the increased demands of milk production, growth and development. Dividing this higher dose between two meals will help to ensure optimal absorption and utilisation, enabling your horse to receive the full benefit of Cell-Grow.

It is also important when mixing up a feed to reduce the chance of disintegration of the Cell-Grow Supplet® pellets. This can be easily avoided by ensuring an even distribution of Cell-Grow throughout the dry feed prior to dampening down with water or vegetable oil.

Q. What pack sizes are available?

Cell Grow is available in a **3.5kg** bucket and a **10kg** bucket.

New Zealand Distributor: Contact Donna from Animal Feed Solutions

for your nearest stores. Freecall: 0800 AFEEDS Phone: 0274434119

Email: info@animalfeedsolutions.com

Kohnke's Own®

Formulated and Manufactured in Australia

www.kohnkesown.com