

## **EZ Plus Sheep and Goat Start is essential for newborn Lambs and Kids.**

A newborn lamb or kid is born into an environment that is laden with bacteria and there are multiple points of entry waiting for these organisms to invade the newborns system. Because antibodies do not pass over the placenta, new-born lambs and kids arrive initially unprotected from this environment and many infectious organisms that reside there. This neonatal period is the most vulnerable time in life for a lamb or kid. Key to their survival is the intake of an adequate amount of colostrum within the first few hours of life. This provides the antibodies they need to immediately protect them from diseases and provides essential vitamins, minerals and nutrition needed to maintain adequate body temperature, prevent hypoglycemia (low blood sugar) and develop a functioning immune system of their own.

The higher the level of antibodies obtained from colostrum by the newborn in those first few hours of life, the higher the survival rate and even subsequent overall health, weight gain and performance they will attain. When the newborn is unable to obtain an adequate volume of these antibodies it is called 'failure of passive transfer'. These lambs and kids experience a higher death rate often as high as 45% die before 3 weeks of age. Those that survive may have significant health problems or perform poorly.

EZ Plus Start is critical for sheep and goat health. It enhances passive transfer, moving antibodies from a mother's colostrum to her newborn. One study showed newborns receiving EZ Plus Start at birth had titer values for colostral antibodies greater than twice that of the lambs in the control group. In another University level research trial the group treated with EZ Plus Sheep and Goat Start showed significantly improved overall health benefits. This study tracked the lambs through weaning and on to feedlot performance. The study documented all illnesses encountered recording severity and duration of those illnesses comparing a group treated with EZ Plus and an un-treated control group. The disease incidence rate, duration and severity of illnesses were significantly better in the treated group compared to the group that did not receive EZ Plus. This also translated into enhanced feed efficiency and increased weight gains leading to higher weaning weights. These lambs also exhibited a better vaccine response and overall health as evidenced by production records kept between the two groups.

In addition to enhancing passive transfer which causes increased antibody absorption EZ-Plus Start products have been specifically designed and formulated to provide all of the essential trace elements vitamins and minerals needed to give lambs and kids their best start in life. This includes critical elements necessary for neonatal nutrition like zinc, copper, selenium and vitamin E all important to maintain immunocompetence and enhanced humoral and cell-mediated immune responses. It provides not only an increased immune response to infection but also provides the antioxidant properties needed for the regulation of free radicals and similar destructive chemicals that are critical to newborn health.

EZ Plus Sheep and Goat Start provides these essential needs in a one shot, easily administered, richly oxygenated and readily absorbable alkaline fluid that directly enhances neonatal physiology. This gives lambs and kids increased vigor and appetite which enhances the desire and the ability to suckle improving survivability.

Nature usually does an amazing job when newborn lambs and kids are born, but when conditions are less than optimum she can use a little help. Some challenges that could face production systems include: colostrum quality especially in first-time mothers; multiple births; maternal condition before and during pregnancy; nutrition in the weeks running up to parturition; nutrient value of available feed stuffs; stocking density; various environmental conditions; changing management strategies; breed makeup and different production aims to name a few. It is likely that every producer will face a number of challenges from year to year. It is helpful to equip newborns with a powerful immune system that can protect it from various challenges that face the farm no matter what comes along.

EZ Plus Start provides a safety net to aid Mother Nature. Because some adverse conditions are inevitable and expected the goal for every producer is to recognize the areas in his operation where good conditions can be maximized and rely on EZ-Plus Start products to help minimize the effect of the less than optimum.

Passive transfer is so critical to the life and well being of new born lambs and kids it is comforting to know that EZ Plus Start Products will more than double the level of life saving antibodies that will transfer to them at birth. EZ Plus creates an enhanced elevated passive transfer as well as providing all of the essential vitamins and minerals required for critical neonatal nutrition. This ensures a good start in life with a healthy immune system and equips lambs and kids with what they need for good health and productivity long term.

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