

# GRAZIER'S ESSENTIALS™

## WINTER-MUNE™

### *Vitamin A, D, & E Supplement For Beef, Dairy Cattle & Goats*

• A supplement to augment winter immunity in grazing. Fresh forages from diverse pastures and browse are blessed with high amounts of fat soluble vitamins A, E, and vitamin D sterols. These fat soluble vitamins are the primary antioxidants, anti-inflammatories and immune modulators. They also act as catalysts and therefore are responsible for the absorption and metabolism of all minerals.

Once forages are harvested and stored as hay, haylage or baleage, these critical compounds begin to break down. So, it's no wonder why animals become deficient in these vitamins which translates into a litany of health issues. Respiratory ailments, reproductive failure, mastitis, unthrifty calves due to milk deficiencies and pink eye are all examples of compromised health conditions that may result from vitamin deficiencies. Not only are the forages deficient in vitamins A and E but during the winter there is also a "deficiency" of sunlight, the progenitor of vitamin D. Animals housed in barns or stables are especially at risk.

By **March and April** the nutrient loss is severe enough to cause a spike in health issues at a time when ironically the weather is more benevolent. The winter months aren't the only time forages are deficient in fat soluble vitamins. **During the summer**, drought conditions hinder a plant's capability to synthesize the carotenoids (vitamin A), tocopherols (vitamin E) and ergosterol (vitamin D). These deficiencies contribute to the same illnesses most often associated with winter challenges. Free choicing **WINTER-MUNE™** from November through March, or until spring green-up, and during drought conditions, is effective insurance in preventing vitamin A, D & E deficiencies.

**Directions for use:** As an off season supplement, begin to free choice **WINTER-MUNE™** starting in late October/early November through early to mid-April. If pastures are in less than optimum condition (e.g. drought) or mold/mycotoxins are present, free choice continuously. If force fed, provide 2-4 oz. per 1,000 lbs of body weight daily.

\*\*Always supply your preferred Grazier's Essentials™ complete pre-mix to your livestock to provide macro and trace elements, digestive aids (enzymes/probiotics) and full spectrum vitamins.

**Ingredients:** Dried Kelp, Calcium Carbonate, Montmorillonite (anti-caking agent), Vitamin A Acetate, Vitamin D<sub>3</sub>, Vitamin E Acetate, Zinc Proteinatate, Zinc Oxide, Zinc Sulfate, Ethylenediamine dihydriodide (EDDI Iodine), Sodium Selenite, Selenium Yeast

#### **Guaranteed Analysis: (per lb)**

Calcium max .....	6%	Vitamin E, min ...	6,000 IU
Calcium min .....	5%	Iodine, min .....	50 mg
Mg min .....	2%	Selenium, min .....	50 ppm
Vitamin A, min .	1,300,000 IU	Zinc, min .....	200 ppm
Vitamin D, min....	320,000 IU		

**Packaging:** 50 Lb (22.7 kg) Bag

**Caution:** Follow label directions.

Intake of supplemental selenium should not exceed 0.3 ppm on a complete ration basis.

**Warning:** For animal use only. Keep out of reach of children.



✿ **ORGANIC ELIGIBILITY - refer to page 31**

Please read "Notice and Disclaimer" and "Warranty and Condition of Sale" on page 31