



## INFORMATION SHEET

**Energy:** The fuel which enables the body function; available power. Energy is found in various forms: motion, heat, sound. Energy is needed for growth, reproduction, lactation & other bodily functions

**Net Energy (NE):** Represents the energy fraction in the feed that is left after fecal, urinary, gas and heat losses are deducted from the gross energy. Net energy is more accurate in measuring the real value of feed.

**Metabolizable Energy (ME):** Metabolizable energy is the portion of gross energy that is not lost in the feces, urine and gas.

**Protein:** Needed to replace the daily breakdown of tissues within the body: muscles, blood, hair and hooves.

**Minerals:** Inorganic substances needed to perform certain essential body functions. They provide structural materials for bones and teeth, and they aid in body fluid regulation.

**Vitamins:** Complex organic compounds that function as part of the enzyme system; essential for the transformation of energy and regulation of the body's metabolism.

**Crude Protein (CP):** Crude protein is the mixture of true protein and non-protein nitrogen. It indicates the capacity of a feed to meet an animal's protein needs.

**Crude Fat:** Crude fat consists of fats, oils, some waxes, resins and pigments. Can be used to calculate energy needs.

**Crude Fiber:** Contains cellulose, hemicellulose and lignin.

**Ash:** The mineral matter of the feed.

**Moisture:** A term used to indicate the water contained in feeds.

### MINERALS

**CALCIUM** - Bones, Body fluid regulation  
**PHOSPHORUS** - Bones, Metabolism  
**ZINC** - Metabolism  
**COPPER** - Blood  
**IRON** - Blood  
**COBALT** - Blood  
**POTASSIUM** - Body fluid regulation  
**MAGNESIUM** - Body fluid regulation, Bones  
**MANGANESE** - Metabolism  
**IODINE** - Thyroid  
**SELENIUM** - Muscles  
**SODIUM CHLORIDE** - Body fluid regulation

### VITAMINS

**VITAMIN A** - Eyes, Skin, Metabolism  
**VITAMIN D** - Bones  
**VITAMIN E** - Muscles, Metabolism, Reproduction  
**VITAMIN B12** - Blood, Metabolism  
**VITAMIN K** - Blood Clotting  
**BIOTIN** - Metabolism, Hoof conditioning  
**THIAMINE (B1)** - Nerves, Metabolism  
**NIACIN** - Nerves, Metabolism  
**RIBOFLAVIN (B2)** - Enzymes  
**PANTOTHENIC ACID** - Metabolism  
**CHOLINE CHLORIDE** - Metabolism  
**PYRIDOXINE (B6)** - Blood, Metabolism