

# 120x189mm

## SOLUVIT<sup>®</sup> SUPER POWDER

For Veterinary Use Only

### COMPOSITION:

Each gm contains

Vitamin A.....	20,000 IU
Vitamin B2.....	20mg
Vitamin D.....	4000 IU
Vitamin B6.....	6mg
Vitamin E.....	8mg
Vitamin B12.....	30mcg
Vitamin K.....	9mg
Folic Acid.....	2mg
Vitamin C.....	10mg
Nicotinic Acid.....	100mg
Vitamin B1.....	1.25mg
Calcium Pantothenate.....	30mg

### PHARMACOLOGY:

#### Vitamin A:

The term vitamin A is applied to a number of substances with very similar structure and similar activity. The principal and most active substance is all-trans retinol (vitamin A alcohol).

#### Vitamin B2:

Vitamin B2 is a water-soluble, B complex vitamin. It is required for tissue respiration and is also indirectly involved in maintaining erythrocyte integrity.

#### Vitamin D:

Cholecalciferol is the naturally occurring form of vitamin D, the term "vitamin D," refers to vitamin D3 cholecalciferol.

#### Vitamin B6:

Vitamin B6 is water soluble B complex vitamin. These forms of vitamin B6 are converted in vivo to pyridoxal phosphate and pyridoxamine phosphate, which are essential coenzymes in the metabolism of certain amino acids such as tryptophan, in carbohydrate and lipid metabolism, and in the synthesis of heme and GABA, an inhibitory neurotransmitter.

#### Vitamin E:

d-AlphaTocopheryl Acetate. Vitamin E functions as an antioxidant and stabilizer of cell membranes.

#### Vitamin B12:

Involved in protein synthesis; Vitamin B12 is essential to growth, cell reproduction, hematopoiesis, and nucleoprotein and myelin synthesis.

#### Vitamin K:

Vitamin K compounds are fat soluble naphthoquinones. Phytonadione possesses essentially the same type and degree of activity as naturally occurring vitamin K1.

#### Vitamin B9:

Folic Acid is considered to be a cofactor. Supplementing a balanced diet with vitamin B9 has been clinically shown to promote healthy neurological function. Because of its nutritional value, Folic Acid is formulated along with other essential vitamins, minerals and amino acids that are associated with healthy nervous system function.

#### Vitamin C:

Ascorbic acid (Vitamin C) is a water-soluble vitamin. It occurs as a white or slightly yellow crystal or powder with a slight acidic taste. It is an antiscorbutic product. On exposure to light, it gradually darkens. In the dry state, it is reasonably stable in air, but in solution it rapidly oxidizes. Ascorbic acid is freely soluble in water; sparingly soluble in alcohol; insoluble in chloroform, in ether, and in benzene. The chemical name of ascorbic acid is L-ascorbic acid. The empirical formula is C6H8O6, and the molecular weight is 176.13.

#### Vitamin B3:

Nicotinic Acid is considered to be a cofactor. Cofactors are the single most important set of components required to maintain fundamental processes throughout the body. Basic nervous system functions such as neurotransmitter synthesis and healthy cell-to-cell communication would not be possible without the presence of necessary vitamin, mineral and amino acid cofactors. Supplementing a balanced diet with vitamin B3 has been clinically shown to promote normal cell function and energy metabolism. Because its nutritive value, Niacin is formulated along with other essential vitamins, minerals and amino acids that are associated with healthy nervous system function.

#### Vitamin B1:

Vitamin B1 is a water soluble B complex vitamin. In vivo, vitamin B1 combines with adenosine triphosphate (ATP) to form Thiamine pyrophosphate, also known as cocarboxylase, a coenzyme. Its role in carbohydrate metabolism is the decarboxylation of pyruvic acid and alpha-ketoacids to acetaldehyde and carbon dioxide. Increased levels of pyruvic acid in the blood indicate vitamin B1 deficiency.

#### Vitamin B5:

Pantothenic acid is considered to be a cofactor. Cofactors are the single most important set of components required to maintain fundamental processes throughout the body. Basic nervous system functions such as neurotransmitter synthesis and healthy cell-to-cell communication would not be possible without the presence of necessary vitamin B5 has been clinically shown to promote healthy cognitive functions such as focus and mental clarity. Because of its nutritive value, Pantothenic acid is formulated along with other essential Vitamins, mineral and amino acids that are associated with healthy nervous system function.

### INDICATIONS:

#### For chicks, Broiler & Pullets:

Soluvit Super Powder is used for the treatment and prevention of vitamin deficiencies particularly during periods of illness. To protect birds against stress conditions e.g. vaccination, shifting, abrupt change in temperature, debeaking, during treatment with drug. To promote health, feed efficiency, Weight gain and growth.

#### For Layers & Breeders:

During extreme stress conditions, severe laying slumps and correction of vitamin deficiencies. When layers are prone to disease due to disease in the neighborhood. At the start and towards the end of production, moulting and stress conditions. To maintain good production rate, health and appetite.

### DOSEAGE AND ADMINISTRATION:

Dosage Form: "Powder"

5 gram Soluvit Super Powder in 20 liters of drinking water.

### TOXICOLOGY:

Mostly the vitamins don't cause any major damages but if, however, they do their toxicity can cause: Nausea, Vomiting, Anorexia, Irritability, Drowsiness, Altered mental status, Abdominal pain, Blurred vision, Headache, Muscle pain with weakness.

### PRECAUTIONS:

Store between 15-25°C in a cool and dry place.

Protect from moisture and light.

Keep out of the reach of children.

Consult the veterinarian before use.

### WITHDRAWAL TIMES:

Chicken: 1 day, Egg: 1 day.



### Innovator's Specs.



Manufactured by:  
Selmore Pharmaceuticals Limited,  
36-Km Multan Road, Lahore Pakistan.

