

## BECOSULES<sup>®</sup> GOLD capsule

### Vitamin B-complex and Vitamin C

#### DESCRIPTION:

**Becosules<sup>®</sup> Gold capsule** contains Vitamin B-Complex and Vitamin C.

#### Each capsule contains:

Thiamine Mononitrate	USP	50.0 mg
Riboflavin	USP	25.0 mg
Pyridoxine Hydrochloride	USP	10.0 mg
Cyanocobalamin	USP	0.005 mg
Nicotinamide	USP	100.0 mg
Calcium D- Pantothenate	USP	25.0 mg
Folic Acid	USP	0.50 mg
Ascorbic Acid	USP	175.0 mg

#### ACTIONS:

Vitamin B-Complex and Vitamin C function as cofactors of various enzymes which regulate carbohydrate, protein and fat metabolism.

Thiamine (B<sub>1</sub>) acts as a cofactor in the decarboxylation of keto acids such as pyruvic acid.

Riboflavin (B<sub>2</sub>) plays a vital role in cellular respiratory reactions in conjunction with nicotinamide.

Pyridoxine (B<sub>6</sub>) takes part in decarboxylation and interconversion of amino acids. It is also required for normal antibody-mediated and cell-mediated immune responses.

Vitamin B<sub>12</sub> (cyanocobalamin) is required for synthesis of DNA (deoxyribo-nucleic acid) and maturation of RBCs (red blood cells).

Nicotinamide (niacinamide) plays a vital role in cellular respiration in conjunction with riboflavin.

Calcium Pantothenate functions as a cofactor for enzymes involved in transfer of acetyl groups. It is also required for normal antibody response in conjunction with pyridoxine.

Folic acid, after conversion in the body to folinic acid, takes part in reactions involved in the synthesis of nucleotides and maturation of RBCs in conjunction with vitamin B<sub>12</sub>. It also plays an important role in lymphocyte-mediated immune response.

Ascorbic acid (Vitamin C) takes part in biochemical reactions involving oxidation, as in collagen synthesis, and in conversion of folic acid to folinic acid. It is also necessary for normal phagocytic function of WBCs (white blood cells).

Thus an adequate supply of these water-soluble vitamins is required for the optimum function of various cells and tissues. Except for Vitamin B<sub>12</sub>, these water-soluble vitamins are not stored in the body to any significant extent, the excess quantities being excreted in the urine. Therefore, a regular and adequate intake of them is necessary to meet the metabolic requirements. Deficiencies of water-soluble vitamins often co-exist because of their overlapping dietary sources and metabolic interdependence. Initially the deficiency of these vitamins may be subclinical and demonstrable only by means of biochemical tests. If not corrected at this stage, it may become manifest as various symptoms, including impaired wound healing and increased susceptibility to infection.

Classical deficiency diseases such as beri beri, pellagra and scurvy are rare, whereas mild and subclinical deficiencies are probably more common, even among apparently healthy individuals.

#### INDICATIONS:

**Becosules<sup>®</sup> Gold capsule** is indicated in the treatment of patients with deficiencies of, or increased requirement for, vitamin B-complex and vitamin C. Such patients and conditions include:

- Decreased intake because of restricted or unbalanced diet as in anorexia, diabetes mellitus, obesity and alcoholism.
- Reduced availability during treatment with antimicrobials which alter normal intestinal flora, in prolonged diarrhea and in chronic gastrointestinal disorders.
- Increased requirements due to increased metabolic rate as in fever and tissue wasting, e.g. febrile illness, acute or chronic infections, surgery, burns and fractures.
- Stomatitis, glossitis, cheilosis, paraesthesias, neuralgia and dermatitis.
- Micronutrient deficiencies during pregnancy or lactation.

#### CONTRAINDICATIONS:

Hypersensitivity to any of the ingredients of **Becosules<sup>®</sup> Gold capsule**.

#### WARNINGS:

In pernicious anemia, folic acid in **Becosules<sup>®</sup> Gold capsule** may correct anemia but aggravate neurological lesion.

#### PRECAUTIONS:

The use of **Becosules<sup>®</sup> Gold capsule** in patients with deficiency or increased requirement of Vitamin B-complex and Vitamin C should be accompanied by specific therapy for the primary illness.

Treatment with **Becosules<sup>®</sup> Gold capsule** should be continued only until the deficiency is corrected or the need for supplementation exists.

Pyridoxine in **Becosules<sup>®</sup> Gold capsule** may reduce the therapeutic effects of levodopa in Parkinson's disease.

Riboflavin in **Becosules<sup>®</sup> Gold capsule** may color the urine yellow.

During treatment with **Becosules<sup>®</sup> Gold capsule** the urine may give a false positive result for sugar by Benedict's test because of the presence of ascorbic acid. Therefore, a test not affected by ascorbic acid should be used.

#### ADVERSE REACTIONS:

Hypersensitivity reactions have been reported with thiamine and folic acid, although these are rare.

#### DOSAGE:

One capsule daily or as advised by the physician.

#### STORAGE:

Store in a cool and dry place, away from light and children.

#### SUPPLY:

**Becosules<sup>®</sup> Gold capsule** : Box containing 15 x 6's capsules in strip pack.

®Trade Mark

Manufactured by



**Renata Limited**

Mirpur, Dhaka, Bangladesh