

# Tri-B-100

## Energy and stress control

### DESCRIPTION

Tri-B-100 provided by Douglas Laboratories® is a six to eight hour timed release formulation of all the B vitamins as well as several other important dietary components metabolically associated with the B vitamins.

### FUNCTIONS

As coenzymes, the B vitamins are essential components in most major metabolic reactions. As water-soluble substances, B vitamins are not generally stored in the body in any appreciable amounts (with the exception of vitamin B-12). Therefore, the body needs an adequate supply of B vitamins on a daily basis.

Vitamin B-1 (thiamin), vitamin B-2 (riboflavin), and niacinamide are all essential coenzymes in energy production. Thiamin is required for the energetics of the glycolytic and Citric Acid Cycle reactions. Thiamin is also related to nerve impulse transmission. Riboflavin is a component of coenzymes FAD and FMN, which are intermediates in many redox reactions, including energy production and cellular respiration reactions. Niacin is a component of the coenzymes NAD and NADP, which are also integral components of energy production reactions.

Vitamin B-6 dependent enzymes are required for the biosynthesis of many neurotransmitters, including serotonin, epinephrine, and norepinephrine. Vitamin B-6, a coenzyme in amino acid metabolism, is also necessary for the processing of homocysteine and the conversion of tryptophan into niacin.

Folic acid together with vitamin B-12 serves as a methyl donor for biosynthetic reactions, including the conversion of homocysteine to methionine.

Optimum metabolism of proteins, carbohydrates, and fats depends upon adequate levels of biotin and pantothenic acid. Biotin is essential for many

metabolic carboxylation reactions, while pantothenic acid, as part of Coenzyme A, is essential to energy production via the Citric Acid Cycle.

While not truly vitamins, choline, inositol, and para-aminobenzoic acid are important, related nutrients to B vitamins. Choline serves not only as a methyl donor for homocysteine metabolism following conversion to betaine, but also as a structural component of cellular membranes as phosphatidylcholine and of the neurotransmitter acetylcholine. Inositol aids in the cellular response to hormonal signals, serves as a source of arachidonic acid, and is active in cellular membranes as phosphatidylinositol. Finally, para-aminobenzoic acid is an integral component of folic acid as well as having antioxidant properties.

### INDICATIONS

Tri-B-100 tablets may be a useful dietary supplement for those individuals who wish to increase their intake of the B vitamins to help maintain the higher energy levels needed for stress control.

### FORMULA (#7913)

#### Each Timed Release B-Complex Tablet Contains:

Vitamin B-1 .....	100 mg
Vitamin B-2 .....	100 mg
Vitamin B-6 .....	100 mg
Vitamin B-12 .....	100 mcg
Niacinamide .....	100 mg
Folic Acid .....	400 mcg
Pantothenic Acid .....	100 mg
d-Biotin .....	100 mcg
Choline Bitartrate .....	100 mg
Inositol .....	100 mg
PABA .....	100 mg

(Para-Aminobenzoic Acid)

In a base designed to provide prolonged release over a 6 to 8 hour period.

*(continued on reverse)*

## **SUGGESTED USE**

Adults take 1 tablet daily or as directed by physician.

## **SIDE EFFECTS**

No adverse effects have been reported.

## **STORAGE**

Store in a cool, dry place, away from direct light.  
Keep out of reach of children.

## **REFERENCES**

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**These statements have not been evaluated by the Food and Drug Administration.  
This product is not intended to diagnose, treat, cure, or prevent any disease.**

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