



MULTI B COMPLEX

Energy formula. Contains nutrients to reduce tiredness and fatigue.

Nutritional Information One Tablet provides:

one rabio promace.			*%NRV
Vitamin C	500 mg		625
Thiamin (B1)	19.5 mg		1773
Riboflavin (B2)	25 mg		1786
Niacin (B3)	25 mg	NE	156
Vitamin B6	10 mg		714
Folic Acid (B9)	400 µg		200
Vitamin B12	25 μg		1000
Biotin (B7)	25 μg		50
Pantothenic Acid (B5)	25 mg		417
Choline Bitartrate	25 mg		
Inositol	25 mg		
PABA	25 mg		
NE = Niacin Equivalent *NRV = Nutrient Reference Values			

Take one tablet daily with a meal. Swallow with water.













SUMMARY

- Quick release formula.
- Medium potency formulation.

- Full spectrum of B vitamins with PABA, choline and inositol.
- · With vitamin C.

DESCRIPTION

A medium potency quick release formula providing a full spectrum of B vitamins with vitamin C. Multi B Complex is designed to support a hectic lifestyle, concentration levels, reduce tiredness and fatigue and to support a healthy stress response.

B vitamins and vitamin C are needed for the immune system to function effectively. Often the immune system becomes less effective in states of stress which can lead to increased incidences of infections.

Multi B Complex contains B vitamins as well as vitamin C, PABA, choline and inositol for a synergistic effect.

ENERGY PRODUCTION

B vitamins are required directly for the energy production cycle, also called the krebs cycle. They are used as important cofactors.

- Niacin (B3) NADH.
- Riboflavin (B2) FADH.
- Pantothenate (B5) Coenzyme A.
- Vitamin B12 methylmalonyl-CoA.

NADH, FADH, Coenzyme A and methylmalonyl-CoA feed directly into the krebs cycle where they aid in the production of ATP, a vital energy source. Insufficient intake of B vitamins can impair energy production and cause fatigue.

Oxygen transportation: Another way that B vitamins contribute towards energy production is with oxygen transportation in the body. Vitamins B3, folate and B6 are all required for the synthesis of all haem proteins, including haemoglobin, necessary for iron transportation and energy production¹. Anaemia can be caused by a deficiency in any of these nutrients, as well as a deficiency in iron. In the case of iron deficiency anaemia, a B complex should be taken for a multi-therapeutic approach to recovery.

The thyroid: The thyroid is an essential gland for metabolism and energy production, and requires vitamin B2 to work effectively. Vitamin B2 is required as a cofactor in the synthesis of flavoproteins (proteins that contain nucleic acids). These are essential for the proper function of the thyroid 1.

THE STRESS RESPONSE

Neurotransmitters: Vitamin B6 and folate are required for the production of serotonin. Serotonin is an essential neurotransmitter in the ability to cope with stress.

Stress hormones: Another essential nutrient in Muti B Complex is vitamin C, the only water soluble vitamin that is not part of the B family. Vitamin C is a core nutrient in the stress response, and is stored and released by the adrenal glands in times of stress⁸. B vitamins are needed as cofactors in the synthesis of adrenaline which is produced by the adrenal glands in times of stress, and enables quick thinking and moving under pressure. In times of chronic stress, B vitamins can quickly become depleted.

IMMUNE HEALTH

Normal antibody responses: The effect of a B vitamin deficiency on the immune system is profound, especially with the inadequacy of folate². The thymus gland, where T lymphocytes are developed and taught self-tolerance, undergoes changes in the state of folate deficiency. Normal antibody responses have been shown to be decreased, increasing the chance of developing infections².

Methylation: Further roles of B vitamins in the immune system are in the process of a biochemical reaction that occurs in each cell called methylation. Folate and vitamin B12 work together in the methylation cycle to create metabolites (cysteine and then glutathione). Glutathione is a powerful antioxidant that requires B2 for activation in a process called the redox cycle¹. A delicate balance of glutathione is required for the optimum function of lymphoid cells³, thus making B12, B2 and folate essential components of the immune system.

Inflammation: B vitamins are part of a complex reaction within the immune system. Vitamin B3¹ and B6 are other vital nutrients are required for the production of C1 proteins⁴. These aid with phagocytosis and inflammation, both core factors in infection resistance.

BRAIN FUNCTION

Blood brain barrier: B vitamins are required for the health of the nerves and are actively transported across the blood brain barrier, where their levels are tightly regulated¹.

Neurotransmitters: Choline is required for the creation of acetylcholine and B1 plays a neuro-modulatory role in acetylcholine neurotransmission. Acetylcholine is a neurotransmitter required for nerve to nerve communication, muscle function⁵, learning and memory⁶.

Mood and sleep: Furthermore, B vitamins are required for mood and sleep. Vitamin B6 and folate are required as cofactors in the synthesis of many neurotransmitters including dopamine, serotonin and GABA. Suboptimal levels of B6 cause a decrease in the production of these neurotransmitters which can effect mood and sleep¹.

Cognitive decline: Cognitive decline, neurological and psychiatric symptoms can result as a deficiency in any of the B vitamins¹, and most commonly folate and B12⁷.

WHY IS A B COMPLEX PREFERRED TO SINGLE NUTRIENTS?

Synergy: B vitamins work together and have a synergistic effect. Although a specific B vitamin may be required for a symptom, others may enhance that action.

- Vitamin B2 helps to recycle B3, folate and B61.
- B3 is required for the conversion of folate into its bioactive form methyltetrahydrofolate.
- A deficiency in either B12 or folate can appear the same, and taking just one of these can hide a deficiency state
 of the other.

B vitamin deficiency: A deficiency in one B vitamin is rare, although only one may present itself in a deficiency disease, this is with the exception of vitamin B12, pernicious anaemia and veganism where a single deficiency is possible. A deficiency generally occurs due to poor diet, poor absorption or with an increased need, which most often effects all of the B vitamin family.

HOW SHOULD MULTI B COMPLEX BE TAKEN?

Take one tablet daily with a meal. Swallow with water.

ARE THERE ANY PRECAUTIONS BEFORE OR WHILE TAKING MULTI B COMPLEX?

Multi B Complex is intended for use by individuals who wish to support the stress response, energy production, the immune system and brain function and is not suitable for the following:

- · Pregnant and breastfeeding woman;
- Children.

Consult a healthcare professional before taking while on any medication.

FEATURES

- Medium potency vitamin B and C complex
- Quick release tablet designed to provide full potency within 30 minutes for swift tissue saturation

HEALTH NEEDS











PROTECTION

ENERGY

AND WELLBEING

IMMUNITY

STRESS AND A HECTIC LIFESTYLE

SCIENTIFIC REFERENCES

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