

# FOUNDATION VITAMIN FORMULA

## CLINICAL APPLICATIONS

- Provides Baseline Nutrition for a Variety of Protocols
- Full Spectrum Antioxidant Protection
- Builds Metabolic Reserve and Protects Against Dietary Deficiencies
- Protects Against Stress-Induced Nutrient Depletion
- Supports Healthy Metabolism

# ESSENTIAL VITAMINS

This product is a comprehensive, hypo-allergenic, multivitamin and mineral blend. As a complete multivitamin, this product provides high-quality nutrients to build a healthy micronutrient reserve. USP\* B vitamins support energy production. Albion® TRAACS® chelated mineral complexes enhance bioavailability. This product includes an optimal 2:1 magnesium to calcium ratio. Key antioxidants vitamin C, natural vitamin E mixed tocopherols and carotenoids protect cells from free radical damage.

#### **Overview**

It is well-established that good nutrition promotes health, while nutritional deficiencies can lead to many chronic diseases. Yet, many people underestimate the importance of achieving proper levels of micronutrients each day. For the human body to complete vital daily tasks, it must be given a wide and complex variety of key micronutrients. Micronutrients play a role in strengthening immune function and converting food into energy. They detoxify chemicals and medications, and manufacture neurotransmitters, hormones and other key signaling molecules in the body. Micronutrients also maintain tissue repair and cell regeneration. Becoming deficient in any one of these essential vitamins or minerals can create a breakdown metabolic processes that safeguard health.

Comprehensive studies conducted by the United States Department of Agriculture have revealed the average American diet lacks micronutrients. Nutritional deficiencies may be caused by poor nutrient levels in the soil, food transport and storage methods, and food processing techniques. In addition, deficiencies can also be caused by highly processed

and refined foods, food additives, medications, alcohol consumption, smoking, heavy metal exposure and high stress levels. Whatever the reason, nutrient deficiencies exist in a substantial portion of the U.S. population and, for select nutrients, more than 80% of Americans consume less than the recommended daily allowance (RDA). [1,2] Although recommended nutrient intakes (e.g., %DV, DRIs, EARs, RDAs) have been established as minimum guidelines for healthy individuals, these guidelines were not designed to address the micronutrient needs of all individuals, especially those with chronic health concerns. While these guidelines can help prevent a severe nutrient deficiency, standards such as the RDA are not a reflection of optimal daily intake. For these reasons, a daily multivitamin is a prudent choice for most individuals. This product is a superior multivitamin designed to support the ideal daily intake of vitamins and minerals by providing a high-quality source of nutrients in the most bioavailable form.

#### Bioavailability<sup>†</sup>

The importance of bioavailability is obvious. If consuming a multivitamin has little effect on improving the body's nutrient balance, there is no reason to ingest it. Inferior multivitamin supplements often contain synthetic vitamin E in a dl-tocopherol form. This product contains natural d-alpha tocopherol, as well as mixed tocopherols, to enhance vitamin E availability and its free radical scavenging potential. Another sign of an inferior multivitamin is the use of cheap, poorly-absorbed, rock-salt minerals like calcium carbonate and magnesium oxide. These mineral forms have slow and limited absorption relying on adequate stomach acid to promote passive diffusion into the body. What's more, because they

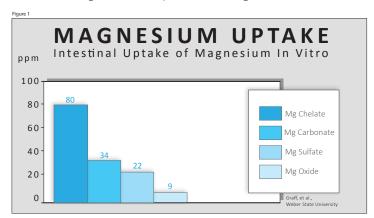
### DIAMOND NUTRITIONALS

remain in the intestines longer, these forms can cause intestinal distress such as constipation (calcium carbonate) or diarrhea (magnesium oxide).

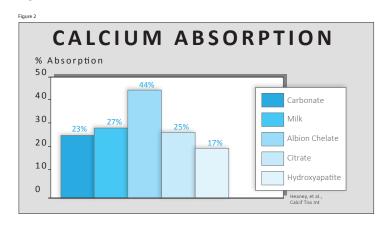
This product provides a full spectrum of highly-absorbed, Albion® mineral chelates. Albion® is the world leader in manufacturing highly bioavailable mineral chelates, a specialized form of minerals bound to amino acids. This patented process creates natural mineral compounds which use active absorption mechanisms in the gastrointestinal tract to significantly enhance mineral absorption. Comparison studies show significantly superior absorption of mineral chelates over other forms of minerals.

In a magnesium comparison study reported by Graff et al. at Weber State University, Albion's® magnesium amino acid chelate had (See Figure 1): [3]

- 8.8 times greater absorption than magnesium oxide
- 5.6 times greater absorption than magnesium sulfate
- 2.3 times greater absorption than magnesium carbonate



In a clinical study comparing calcium absorption in humans, Albion's® patented calcium chelate delivered the greatest absorption of all calcium sources tested (44% Absorption - See Figure 2). [4]



In addition, mineral chelates are gentle, gut-friendly minerals that do not cause the constipation that often accompanies calcium carbonate and other mineral forms. Albion's® mineral chelates have extensive clinical research proving their superior bioavailability, biologic activity, stability and tolerance.

#### Metabolism & Energy Production<sup>†</sup>

Converting food into cellular energy is a nutrient-intensive process. This product provides substantial levels of B vitamins, which are prime coenzymes for the Kreb's cycle, the biochemical pathway responsible for maintaining energy production in the form of ATP (adenosine triphosphate). This product exclusively uses high-quality, USP\* grade B vitamins ideal for individuals looking to boost their energy levels and support stressful lifestyles.

#### **Broad Spectrum Antioxidant Support<sup>†</sup>**

The body is constantly exposed to free radicals and relies heavily on its antioxidant reserve for protection. Free radicals are generated by metabolic by-products and environmental exposure such as UV rays from the sun, air pollution and radiation. This product contains a balanced spectrum of antioxidant vitamins such as vitamin C, mixed carotenoids, trace elements and nutrients that up-regulate antioxidant-supporting pathways in the body. They work synergistically to regenerate each other and maintain adequate levels of protective antioxidants throughout the body.

\*The USP is a scientific organization that sets standards for the identity, strength, quality and purity of medicines, food ingredients and dietary supplements, manufactured, distributed and consumed worldwide.

#### **Directions**

3 tablets per day with food or as recommended by your health care professional.

#### **Does Not Contain**

Gluten, yeast, artificial colors and flavors.

#### **Cautions**

If you are pregnant or nursing, consult your physician before taking this product.

## DIAMOND NUTRITIONALS

## Supplement Facts

Serving Size 3 Tablets Servings Per Container 30 & 60

Servings Per Container 30 & 60		
3 tablets contain	Amount Per Serving	% Daily Value
Vitamin A (as Betatene® Natural Mixed Carotenoids, Palmitate)	7,500 IU	150%
Vitamin C (as Calcium Ascorbate USP, Ascorbic Acid)	500 mg	833%
Vitamin D3 (as Cholecalciferol)	1,000 IU	250%
Vitamin E (as d-Alpha Tocopherol Succinate USP)	100 IU	333%
Vitamin K (K1 as Phytonadione, K2 as Menaquinone-7 (MK-7))	62.5 mcg	78%
Thiamine (Vitamin B1) (from Thiamine Hydrochloride U		1,667%
Riboflavin (Vitamin B2 USP)	25 mg	1,470%
Niacin (as Niacin USP, Niacinamide USP)	25 mg	125%
Vitamin B6 (as Pyridoxine Hydrochloride USP)	37 mg	1,850%
Folate (as Quatrefolic® (6S)-5-Methyltetrahydrofolic acid glucosamine salt)	400 mcg	100%
Vitamin B12 (as Methylcobalamin)	500 mcg	8,333%
Biotin	200 mcg	67%
Pantothenic Acid (as d-Calcium Pantothenate USP)	150 mg	1,500%
Calcium (as DimaCal® Dicalcium Malate, Calcium Ascorbate USP, d-Calcium Pantothenate USP)	100 mg	10%
lodine (from Kelp)	112 mcg	75%
Magnesium (as DiMagnesium Malate, TRAACS® Magnesium Lysinate Glycinate Chelate)	200 mg	50%
Zinc (as TRAACS® Zinc Bisglycinate Chelate)	10 mg	67%
Selenium (as Selenium Glycinate Complex)	100 mcg	143%
Copper (as TRAACS® Copper Bisglycinate Chelate)	1 mg	50%
Manganese (as TRAACS® Manganese Bisglycinate Chelate)	2 mg	100%
Chromium (as O-Polynicotinate) <sup>‡</sup>	200 mcg	167%
Molybdenum (as TRAACS® Molybdenum Glycinate Chelate)	25 mcg	33%
Potassium (as Potassium Citrate USP)	50 mg	1%
Choline Bitartrate	50 mg	*
Inositol NF	50 mg	*
Mixed Tocopherols	50 mg	*
Rutin	25 mg	*
Boron (as Bororganic™ Glycine)	1 mg	*
Vanadyl Sulfate Hydrate	1 mg	*
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* Daily Value not established		

#### References

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- 4. Magnesium: wide spread benefits. *Albion Research Notes* 1992; 1(2):1.
- 5. Calcium: Heaney RP, Recker RR, Weaver CM.
  Absorbability of calcium sources: the limited role of solubility. *Calcif Tissue Int* 1990 May;46(5):300-4.