The dotFIT Difference

Evidence-Based Programming and Practitioner Products

dotFIT is a research and development company that delivers holistic, evidence-based products, programming and support to sports, fitness and health facilities and professional worldwide. As such, all programming and products must pass our evidence-based Advisory and Legal Committee criteria, including third-party testing procedures, such as Health Canada, the NSF Certified for Sport Program and mandatory audited good manufacturing procedures (GMPs).

Unlike the majority of mass-market supplements, dotFIT Practitioner Products are sold only through professionals. Additionally, each product is supported by full disclosure information, including rationale for use, mechanisms of action, safety and contraindications, in the dotFIT Practitioner Dietary Supplement Reference Guide (PDSRG). This peer-reviewed quality guide is used by our sport, fitness and health professionals and is published by our Scientific Advisory Board and research and development team. The first section of the guide provides essential information regarding criteria, recommendations, testing and manufacturing processes.

Certain dotFIT health and performance products are NSF Certified for Sport (NSFCS). Related scientific studies are referenced for individual products and are found in their respective categories. This Quick Reference Guide (QRG) is an abbreviated version of our full-length PDSRG.

Evidence-Based Rules for Practitioner Products

All dotFIT practitioner products must meet six best-in-practice standards:

1. Efficacy: Formulas contain dosages and ingredients that match clinical trials.
2. Safety: Shown in trials and history, individual screening, and ingredient synergy.
3. Purity and potency: Products are tested from start to finish.
4. Nutrient delivery: Product forms and delivery systems ensure ingredients arrive at the right place and right time.
5. Truth in labeling: Efficacious formulas are verified through third-party testing to ensure what is on the label is in the bottle.
6. Personalized practitioner delivery: Holistic and synergistic solutions are based on body statistics, goals, experience, medical history and progress, all delivered by a professional.

How to Compare Other Products

When recommending any product, professionals should ensure it is accompanied by:

1. Documented proof that doses and forms of ingredients match positive clinical trials as shown here, and
2. Proof of third-party testing to verify the ingredients are in the product at the labeled dosage.

Information about dotFIT product manufacturing and third-party testing can be found here.

Click here to watch a video on the dotFIT Difference.

Evidence-based fitness/weight control solutions (or clinical decisions) that represent the best available evidence and supported by the consensus of their respective scientific community.
Introduction to dotFIT Health Products

The goal of dietary supplements in this category is to help establish and preserve health or potentially stave off chronic or age-related disease by delivering important nutrient compounds\(^1\) that may be unattainable from diet alone. This may be due to any of the following reasons (also see dotFIT Worldwide’s Position on Vitamin & Mineral Supplementation in Introduction of the Practitioner Dietary Supplement Reference Guide):

- Insufficient food intake\(^2,3,4,5\)
- Increased needs that are not met by diet alone\(^5,6,7,8,9,10,11,12,13,14,15,16,17\)
- Special populations, age-related requirements or practicality of foods sources\(^14,17,18,19,20,21,22,23\)
- Lack of interest in or avoidance of essential food groups\(^24,25,26,27,28,29,30,31,32\)
- Low body fat maintenance\(^2,33,34,35,36\)
- Variability of actual nutrient content of food\(^37,38,39,40,41,42,43,44\)
- Inability to move enough to eat enough\(^45,46\)
- Eating too few calories to obtain proper nutrition through food in an effort to maintain a healthy weight in today’s world, where many people maintain a sedentary lifestyle\(^45,46,47\)
- Low sun exposure\(^17,48,49,50,51,52,53,54,55\)
- Inability to define the perfect diet\(^2,56,57,58,59,60\)

The bottom line is that the vast majority of—if not all—Americans do not meet established nutritional guidelines with food alone. Vitamin mineral supplementation is a viable way to fill the gaps.

Why don’t Americans get enough nutrients?

“Why don’t we get enough? I wouldn’t say that it’s because foods now are nutrient deficient. It’s because we are not eating what we are supposed to eat. There are these dietary guidelines and they are very nice, but no one is following them…To assume that everyone is on an ideal diet is naive and I think in fact irresponsible.”

The above statements were authored in an article by four nutrition experts: Balz Frei, PhD, chairman of the Linus Pauling Institute at Oregon State University; Bruce Ames, PhD, of the Children’s Hospital Oakland Research Institute; Jeffrey Blumberg, PhD, of Tufts University; and Walter Willett, MD, of the Harvard School of Public Health.\(^61\)
ActiveMV™

Purpose & Rationale
The ActiveMV is a multivitamin and mineral formula designed for exercising individuals and provides essential nutrients without additional calories. It helps fill common nutritional gaps from suboptimal diets. This allows the body to function at full potential as opposed to down regulating to the often-avoidable limitations from food alone. This is important among physically active persons seeking to reach and maintain relatively low body fat while increasing or sustaining lean body mass. Studies demonstrate that athletes/exercisers require additional vitamins and minerals due to increased energy demands and proper recovery from exercise, including maintaining or increasing lean body mass compared to less active or sedentary counterparts.

Typical Use
For all persons with an active lifestyle, 12-65 years of age, except those who are pregnant, trying to conceive, or lactating.
- Those 12-17 years old take 1 tablet per day with any main meal.
- Active athletes and exercisers 18-65 years of age take 2 tablets per day, 1 with the morning meal and 1 with the evening meal.

Unique Features
- Incorporates a controlled-release delivery system to ensure daily ideal nutrient levels and prevent tissue oversaturation and losses.
- NSF Certified for Sport, verifying purity, potency and absence of contaminants.
- Synergistic with all dotFIT products when following program recommendations.
- Nutrients are in their proper bioavailable and functionally available forms, ratios and strengths to help maintain a safe and optimal range 24 hours per day.

Contraindications
dotFIT multivitamin and mineral formulas are contraindicated in pregnancy and lactation. Pregnant women should use a prenatal formula. Lactating women should use the Women’s MV formula unless advised otherwise by a physician. This formula is contraindicated for those with hemochromatosis (an inherited disease that leads to iron-overload, affecting 0.5 percent of the population) because of the iron content, and for anyone suffering adverse reactions to any of the supplement’s ingredients. The vitamin E and K content in two tablets per day may be contraindicated for those individuals taking blood-thinning medication. In all cases, consult with a physician.

Supplement Facts

<table>
<thead>
<tr>
<th>Serving Size: 1 Tablet</th>
<th>Servings Per Container: 60</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vitamin A (as Beta Carotene and Acetate)</td>
<td>2550 mcg (4500 IU)</td>
</tr>
<tr>
<td>Vitamin C (as Ascorbic Acid and Calcium Ascorbate)</td>
<td>490 mg</td>
</tr>
<tr>
<td>Vitamin D-3 (as Cholecalciferol)</td>
<td>15 mcg (600 IU)</td>
</tr>
<tr>
<td>Vitamin E (as D-Aldophyl Succinate)</td>
<td>101 mg (150 IU)</td>
</tr>
<tr>
<td>Vitamin K (as Phytodiolone K1 and Menadione K2)</td>
<td>50 mcg</td>
</tr>
<tr>
<td>Vitamin B1 (as Thiamine Mononitrate)</td>
<td>5 mg</td>
</tr>
<tr>
<td>Vitamin B2 (as Riboflavin-5-Phosphate)</td>
<td>2.5 mg</td>
</tr>
<tr>
<td>Vitamin B6 (as Pyridoxal-5-Phosphate)</td>
<td>1.5 mg</td>
</tr>
<tr>
<td>Folate</td>
<td>1.67 mcg DFE (100 mcg folic acid)</td>
</tr>
</tbody>
</table>

Vitamin B-12 (as Cyanocobalamin and Methylcobalamin) | 19 mcg | 625% |
| Biotin | 150 mcg | 500% |
| Iron (as Ferrous Fumarate) | 5 mg | 28% |
| Iodine (from Kelp) | 25 mcg | 17% |
| Magnesium (as Magnesium Oxide and Citrate) | 100 mg | 2% |
| Zinc (as Zinc Citrate) | 7.5 mg | 68% |
| Selenium (as Selenomethionine) | 35 mcg | 64% |
| Copper (as Copper Gluconate) | 0.5 mg | 56% |
| Chromium (as Chromium Picolinate) | 50 mcg | 143% |
Women’sMV™

Purpose & Rationale
The Women’sMV is a multivitamin and mineral formula designed to address specific needs of non-pregnant females up to age 50. Most vitamin and mineral needs remain the same for males and females in this age group. Special needs may develop in response to life stage, diet type, activity level and body size. In reference to the latter, the Dietary Reference Intakes (DRIs) for certain nutrients among women are slightly less than men. Special needs generally include slightly higher levels of iron and other common dietary nutrient shortfalls more specific to women, such as calcium, folate, magnesium, fiber, and vitamins A, C, E and K. This formula is designed to deliver these nutrients in proper bioavailable forms, which ideally complement the dotFIT SuperCalcium formula for those not meeting calcium recommendations for bone health, including the majority of females and approximately 50% of males.

Typical Use
• For use by women 13-50 years of age not using the ActiveMV Formula
• Non-pregnant women and lactating females unless physician recommends otherwise
• 1 tablet per day before or after main meal with fluid

Unique Features
• Contains 10mg of iron to help correct common marginal intakes.
• Includes optimal doses and forms of folic acid (levels associated with a protective effect on cognition in women), vitamins B6 and B12.
• Contains proper amounts of health and bone-building nutrients vitamin D, and the two essential forms of vitamin K. While K1 and K2 have similar and unique properties, K2 (menaquinone) has only recently emerged as serving an important role in vascular and bone health.
• Magnesium in this formula complements the typical American female’s diet to help achieve desired magnesium levels. Additionally, this formula works synergistically with the dotFIT SuperCalcium, which also contains magnesium, thus keeping total intake in the safe optimal nutrient range.
• Synergistic with all dotFIT products when following program supplement recommendations.
• Use of controlled-release delivery systems ensures daily ideal nutrient levels and prevent tissue oversaturation and losses.
• Third-party tested.

Contraindications
dotFIT multivitamin and mineral formulas are contraindicated in pregnancy. Pregnant women should use a prenatal formula as directed by their physician. This formula is contraindicated for those with hemochromatosis (an inherited disease that leads to iron-overload, affecting 0.5 percent of the population) because of the iron content, and for anyone suffering adverse reactions to any of the supplement’s ingredients. The vitamin E and K content in two tablets per day may be contraindicated for those individuals taking blood-thinning medication. In all cases, consult with a physician.

Supplier Facts

<table>
<thead>
<tr>
<th>Nutrient</th>
<th>Amount Per Serving</th>
<th>% Daily Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vitamin A (as Beta Carotene and Acetate)</td>
<td>6,000 IU</td>
<td>120%</td>
</tr>
<tr>
<td>Vitamin C (as Ascorbic Acid and Calcium Ascorbate)</td>
<td>300 mg</td>
<td>500%</td>
</tr>
<tr>
<td>Vitamin D-3 (as Cholecalciferol)</td>
<td>1,000 IU</td>
<td>250%</td>
</tr>
<tr>
<td>Vitamin E (as D-Aloha Tocopheryl Sulfate)</td>
<td>100 IU</td>
<td>333%</td>
</tr>
<tr>
<td>Vitamin K (as Phytonadione K1 and Menaquinone K2)</td>
<td>50 mcg</td>
<td>63%</td>
</tr>
<tr>
<td>Vitamin B1 (as Thiamine Mononitrate)</td>
<td>6 mg</td>
<td>400%</td>
</tr>
<tr>
<td>Vitamin B2 (as Riboflavin-5-Phosphate)</td>
<td>12 mg</td>
<td>353%</td>
</tr>
<tr>
<td>Vitamin B3 (as Niacinamide)</td>
<td>20 mg</td>
<td>100%</td>
</tr>
<tr>
<td>Vitamin B6 (as Pyridoxal-5-phosphate)</td>
<td>2 mg</td>
<td>100%</td>
</tr>
<tr>
<td>Folic Acid</td>
<td>400 mcg</td>
<td>100%</td>
</tr>
<tr>
<td>Vitamin B12 (as Methylcobalamin)</td>
<td>10 mcg</td>
<td>167%</td>
</tr>
<tr>
<td>Biotin</td>
<td>100 mcg</td>
<td>33%</td>
</tr>
<tr>
<td>Vitamin B5 (D-Calcium Pantothenate)</td>
<td>15 mg</td>
<td>150%</td>
</tr>
<tr>
<td>Iron (as Iron Fumarate)</td>
<td>10 mg</td>
<td>56%</td>
</tr>
<tr>
<td>Iodine (from Kelp)</td>
<td>100 mcg</td>
<td>67%</td>
</tr>
<tr>
<td>Magnesium (as Oxide and Citrate)</td>
<td>100 mg</td>
<td>25%</td>
</tr>
<tr>
<td>Zinc (as Zinc Citrate)</td>
<td>12 mg</td>
<td>80%</td>
</tr>
<tr>
<td>Selenium (L-Selenomethionine)</td>
<td>50 mcg</td>
<td>71%</td>
</tr>
<tr>
<td>Chromium (as Chromium Picolinate)</td>
<td>50 mcg</td>
<td>42%</td>
</tr>
<tr>
<td>Boron (as Boron Citrate)</td>
<td>1 mg</td>
<td>*</td>
</tr>
</tbody>
</table>

*% Daily Value not established.
Over50MV™

Purpose & Rationale
The Over50MV is a multivitamin and mineral formula designed specifically for the general population 50 years and older seeking to support longevity by ingesting a superiorly formulated (Practitioner Product) multivitamin and mineral (MVM) dietary supplement when compared to the typical under-formulated mass-market MVM products. It is used to fill the inadvertent nutritional gaps left from food alone. This allows the body to function at full potential as opposed to down-regulating to often unavoidable dietary limitations and changes, which occur naturally during the aging process. This formula includes levels of vitamin B6, vitamin D and calcium that satisfy the higher daily DRIs for adults 50 years and older. As aging continues, including the inevitable decline in digestive abilities, other nutrient needs may also increase. This formula considers the requirements of older individuals by providing nutrients related to age-related chronic diseases, such as dementia, osteoporosis and heart disease.

Typical Use
- For the general population over 50 years of age
- Individuals using ActiveMV formula would switch to the Over50MV formula at age 65
- 1 tablet per day before or after main meal with a beverage

Unique Features
- Contains optimal doses of folate, B6 and B12 along with proper amounts of health and bone-building nutrients such as vitamin D and both essential forms of vitamin K.
- Contains vitamin B12 in two forms: methylcobalamin and cyanocobalamin.
- Magnesium in this formula complements the typical American diet to help achieve desired magnesium levels and, when needed, work synergistically with dotFIT SuperCalcium, which also contains magnesium, thus keeping total intake in the safe optimal nutrient range. The magnesium in this formula is in the citrate form for greater bioavailability when compared to other forms.
- Synergistic with all dotFIT products when following program supplement recommendations.
- Use of controlled-release delivery systems to ensure daily ideal nutrient levels and prevent tissue over-saturation and losses.

Contraindications
dotFIT multivitamin and mineral formulas are contraindicated in pregnancy and lactation. Pregnant women should use a prenatal formula. This formula is contraindicated for those with hemochromatosis (an inherited disease that leads to iron-overload, affecting 0.5 percent of the population) because of the iron content, and for anyone suffering adverse reactions to any of the supplement’s ingredients. The vitamin E and K content in two tablets per day may be contraindicated for those individuals taking blood-thinning medication. In all cases, consult with a physician.

Supplement Facts

<table>
<thead>
<tr>
<th>Serving Size: 1 Tablet</th>
<th>Servings Per Container: 60</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vitamin A (as Beta Carotene)</td>
<td>10,000 IU</td>
</tr>
<tr>
<td>Vitamin C (as Calcium Ascorbate)</td>
<td>400 mg</td>
</tr>
<tr>
<td>Vitamin D (as Cholecalciferol)</td>
<td>1000 IU</td>
</tr>
<tr>
<td>Vitamin E (as d-alpha tocopheryl Succinate)</td>
<td>50 IU</td>
</tr>
<tr>
<td>Vitamin K1 (as Phytonadione and K2 as Menagluinone)</td>
<td>50 mcg</td>
</tr>
<tr>
<td>Vitamin B1 (as Thiamine Mononitrate)</td>
<td>6 mg</td>
</tr>
<tr>
<td>Vitamin B2 (as Riboflavin)</td>
<td>6 mg</td>
</tr>
<tr>
<td>Vitamin B3 (as Niacinamide)</td>
<td>20 mg</td>
</tr>
<tr>
<td>Vitamin B6 (as Pyridoxine HCl)</td>
<td>10 mg</td>
</tr>
<tr>
<td>Folate (as Folic Acid)</td>
<td>400 mcg</td>
</tr>
<tr>
<td>Vitamin B12 (as Cyanocobalamin and Methylcobalamin)</td>
<td>100 mcg</td>
</tr>
<tr>
<td>Iodine (from Kelp)</td>
<td>75 mcg</td>
</tr>
<tr>
<td>Magnesium (as Magnesium Citrate)</td>
<td>100 mg</td>
</tr>
<tr>
<td>Zinc (as Zinc Citrate)</td>
<td>15 mg</td>
</tr>
<tr>
<td>Selenium (as Seleniummethionine)</td>
<td>70 mcg</td>
</tr>
<tr>
<td>Copper (as Copper Gluconate)</td>
<td>1 mg</td>
</tr>
<tr>
<td>Chromium (as Chromium Picolinate)</td>
<td>100 mg</td>
</tr>
</tbody>
</table>

*Percent Daily Values are based on a 2,000 calorie diet.

Other Ingredients: Microcrystalline Cellulose, Di Calcium Phosphate, Croscarmellose Sodium, Stearic Acid, Silicon Dioxide, Magnesium Stearate, Pharmaceutical Grade.
**VeganMV™**

**Purpose & Rationale**

The VeganMV is a multivitamin and mineral (MVM) formula which supplies non-animal forms of vitamins and minerals in amounts complementary to nutritional gaps commonly found in typically consumed vegan diets when compared to current recommended dietary allowances (RDAs) or optimal levels of nutrients and other important bio-actives. This formula fills the inadvertent nutritional gaps left from food alone and/or increased by activity, helping the body function at full potential as opposed to down-regulating to often unavoidable dietary limitations or choices. The added supply of nutrients without the calories also helps control healthy desired body composition while simultaneously contributing to optimal nutrient levels. This formula is designed to work synergistically with the typical vegan or vegetarian individual's food intake to help the body avoid a potential triage effect (sacrificing long term health for short term survival).* The formula is ideal for the vegan seeking to support healthy longevity by ingesting a superiorly formulated MVM dietary supplement when compared to the typical under-formulated mass-market MVM products.

Potential micronutrient shortages in a vegan diet may be of particular concern for athletes and regular exercisers. Without regular consumption of animal-derived food sources, including fortified sources, vegan micronutrient shortages of concern are generally vitamin D and B12, zinc, calcium, iodine and iron.95,96,97,98,99,100,101

**Typical Use**

- Vegans and/or vegetarians to support common dietary insufficiencies based on food choices alone
- 1 tablet per day immediately after first main meal

**Unique Features**

- Contains optimal sources of vitamin B12, iron, vitamin D2 (ergocalciferol), iodine and zinc to meet the needs of vegans and those consuming a plant-based diet.

- Use of controlled-release delivery systems to ensure daily ideal nutrient levels and prevent tissue over-saturation and losses.

- Synergetic with all dotFIT products when following program supplement recommendations.

- Third-party tested.

**Contraindications**

dotFIT multivitamin and mineral formulas are contraindicated in pregnancy and lactation. Pregnant women should use a prenatal formula. Lactating women should use the Women’s MV formula unless advised otherwise by a physician. This formula is contraindicated for those with hemochromatosis (an inherited disease that leads to iron-overload, affecting 0.5 percent of the population) because of the iron content, and for anyone suffering adverse reactions to any of the supplement’s ingredients. In all cases, consult with a physician.

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* Human bodies have been programmed to favor short-term survival including reproduction over long-term health when there are shortages of essential nutrients. In other words when there are less than optimal vitamins or minerals entering our bodies, they will be routed to the areas that are needed to keep us alive such as energy production, blood formation,
KidsMV™

Purpose & Rationale
KidsMV is a multivitamin and mineral formula designed specifically to provide the nutrients a growing child needs and often does not get in sufficient amounts due to various factors, such as poor food choices, lack of interest in certain foods or food groups, and finicky eating behaviors. The dotFIT KidsMV is a superiorly formulated (Practitioner Product) multivitamin and mineral formula (MVM) when compared to the typical under-formulated mass-market MVM products.103

Typical Use
- All children ages 2-11 unless a specific medical condition prohibits the intake of any nutrient contained in the formula
- Ages 2-4 take 1 tablet daily
- Ages 5-11 take 2 tablets daily
- Ages 12-17 use 1 adult ActiveMV tablet per day instead of the KidsMV

Unique Features
- Formula and use follow strict and updated scientific research criteria for all youth ages.
- Uniquely formulated to maintain a safe and optimal range of nutrients when combined with other dotFIT products.
- The nutrients are in their proper forms, ratios and strengths to complement food intake and help maintain a safe and optimal range for 24 hours per day.
- Manufactured in compliance with Good Manufacturing Practices (GMPs) exclusively for dotFIT.
- Third-party tested.

Contraindications
The dotFIT KidsMV is contraindicated for those with hemochromatosis (an inherited disease that leads to iron-overload, affecting 0.5 percent of the population) because of the iron content. The KidsMV is also contraindicated for anyone suffering adverse reactions to any of its ingredients. In all cases, consult with a physician.

Supplement Facts

<table>
<thead>
<tr>
<th></th>
<th>Amount Per Serving</th>
<th>% Daily Value Children &lt;4</th>
<th>% Daily Value Children &amp; Adults &gt;4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vitamin A (as Beta-Carotene 2,000 IU and Retinyl Palmitate 500 IU)</td>
<td>2,500 IU</td>
<td>100%</td>
<td>50%</td>
</tr>
<tr>
<td>Vitamin C (as Ascorbic Acid)</td>
<td>50 mg</td>
<td>125%</td>
<td>83%</td>
</tr>
<tr>
<td>Vitamin D (as cholecalciferol)</td>
<td>250 IU</td>
<td>63%</td>
<td>63%</td>
</tr>
<tr>
<td>Vitamin E (as D-Alpha-Tocopheryl Succinate)</td>
<td>20 IU</td>
<td>200%</td>
<td>67%</td>
</tr>
<tr>
<td>Vitamin K (as Phytonadione)</td>
<td>30 mcg</td>
<td>*</td>
<td>38%</td>
</tr>
<tr>
<td>Thiamin (as Thiamin Mononitrate)</td>
<td>1 mg</td>
<td>143%</td>
<td>67%</td>
</tr>
<tr>
<td>Riboflavin</td>
<td>1 mg</td>
<td>125%</td>
<td>59%</td>
</tr>
<tr>
<td>Niacin (as Niacinamide)</td>
<td>6 mg</td>
<td>67%</td>
<td>30%</td>
</tr>
<tr>
<td>Vitamin B6 (as Pyridoxine HCl)</td>
<td>1 mg</td>
<td>143%</td>
<td>50%</td>
</tr>
<tr>
<td>Folate (as Folic Acid)</td>
<td>100 mcg</td>
<td>50%</td>
<td>25%</td>
</tr>
<tr>
<td>Vitamin B12 (as Cyanocobalamin)</td>
<td>3 mcg</td>
<td>100%</td>
<td>50%</td>
</tr>
<tr>
<td>Biotin</td>
<td>10 mcg</td>
<td>7%</td>
<td>3%</td>
</tr>
<tr>
<td>Pantothenic acid (as D-Calcium Pantothenate)</td>
<td>2 mg</td>
<td>40%</td>
<td>20%</td>
</tr>
<tr>
<td>Iron (as Ferrous Fumarate)</td>
<td>5 mg</td>
<td>50%</td>
<td>28%</td>
</tr>
<tr>
<td>Iodine (as Potassium Iodide)</td>
<td>50 mcg</td>
<td>71%</td>
<td>33%</td>
</tr>
<tr>
<td>Magnesium (as Magnesium Oxide)</td>
<td>20 mg</td>
<td>10%</td>
<td>5%</td>
</tr>
<tr>
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<td>33%</td>
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<td>Selenium (as Selenomethionine)</td>
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</tr>
<tr>
<td>Choline Bitartrate</td>
<td>100 mg</td>
<td>*</td>
<td>*</td>
</tr>
</tbody>
</table>

% Daily Value based on a 2,000 calorie diet.
* Daily Value not established.

etc., at the expense of other areas of metabolism whose lack of optimal nutrition has only long-term consequences such as the age-related diseases like cancer, osteoarthritis, dementia, etc.102
Vitamin D3

Purpose & Rationale
This formula supplies a source of vitamin D3 (erogcalciferol) that can help the body achieve total vitamin D [serum 25-hydroxyvitamin D concentration] to a bodily level of >30 ng/mL (75-100 nmol/L), which has recently been associated with greater health outcomes related to total mortality, cardiovascular and respiratory disease, fractures and all-cause dementia. Additionally, higher levels (>40 ng/mL) are associated with improvements in athletic performance.

The desired level of >30 ng/mL (75-100 nmol/L) is generally unachievable without supplementation based on the typical American diet, lack of natural sources and negative health implications from regular exposure to UVB radiation from sun exposure. According to the Center for Disease Control, 70% of Americans have insufficient levels of vitamin D. Older individuals, those with darker skin pigmentation, and people who have higher body-fat levels are at risk for insufficient levels. As we age, the body becomes less efficient at making vitamin D. Melanin, a pigment in the skin acts as a natural sunscreen, blocking UVB radiation and thus vitamin D production. Because vitamin D is fat soluble, it is stored in body fat and is less available to other tissues throughout the body among those with higher body-fat levels.

Typical Use
- Use as a supplement to all other vitamin D sources including a multivitamin and mineral (MVM) formula to achieve the desired level.
- Take with meals as needed to achieve desired level.

Unique or Features
- Progressive target usage recommendation noted on product label.
- NSF Certified for Sport—third-party tested for purity, potency and absence of contaminants.

- When this formula is combined with other dotFIT products, a safe and optimal range of supplemental vitamin D3 (2,000 – 2,600 IUs/day) is maintained.
- The tolerable upper intake level is 4,000 IUs/day.

Contraindications
People using medications that are metabolized in the gastrointestinal tract by cytochrome P450 3A4 (CYP 3A4) enzymes should use vitamin D supplements under physician supervision because vitamin D is thought to induce this enzyme and may result in a reduced bioavailability of these types drugs and other CYP3A4 substrates. Drugs include: Atorvastatin (Lipitor), lovastatin (Mevacor), clarithromycin (Biaxin), cyclosporine (Neoral, Sandimmune), diltiazem (Cardizem), estrogens, indinavir (Crixivan), triazolam (Halcion), and others. If using Orlistat (Xenical, Alli), which decreases absorption of fat-soluble vitamins including vitamin D, patients are recommended to supplement with a MVM that contains all fat-soluble vitamins. The MVM with vitamin D should be taken at least two (2) hours from any Orlistat dose. Overuse of sunscreens can lead to vitamin D deficiency and therefore supplementation and monitoring as noted in dosing section, of serum 25(OH)D concentrations, is warranted. In all cases, consult with a physician.

Supplement Facts
Serving Size: 1 Softgel Capsule

<table>
<thead>
<tr>
<th></th>
<th>Amount Per Serving</th>
<th>% DV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vitamin D-3 (as cholecalciferol)</td>
<td>25 mcg (1,000 IU)</td>
<td>125%*</td>
</tr>
</tbody>
</table>

* % Daily Values are based on a 2,000 calorie diet.
SuperOmega-3™

Purpose & Rationale
This is a marine source of the omega-3 fats, eicosapentaenoic acid (EPA) and docosahexaenoic acid (DHA), which are commonly low in Western diets in the amounts necessary to complement individual food intake to reach tissue levels consistent with those found in persons shown to have lower risk of disease (or early aging) than people with lower levels. Achieving these levels throughout the lifespan may help accomplish the goal of a longer “playspan,” or additional years of physical activity, performance, productivity and overall health, especially when combined with a daily multivitamin and mineral (MVM) formula, as opposed to typical age-related declines in health observed in the U.S. and other developed countries. Humans cannot synthesize omega-3 fatty acids (nor omega-6), making them essential nutrients that must be supplied by diet. Use of the SuperOmega-3 Fish Oils supplement compensates for the common shortage of marine omega-3 fish oils in a mercury-free, easy-to-ingest form for those who do not or cannot consume diets (e.g. specific oil fishes and certain plant foods) containing these essential health components.

Typical Use
- Anyone not consuming 2 servings or 8 oz. of fatty fish weekly; does not have allergies to fish; and is seeking to support cardiovascular, brain and eye health, unless medical reasons prevail as diagnosed by a qualified health professional.
- Take 1 softgel with any meal. Increase only if supervised by a licensed health professional.

Unique Features
- Sourced from wild-caught Alaska pollock from the pure waters of Alaska’s Bering Sea. Delivers the desired fish oils in the recommended amounts of >500 mg/d with a 3:2 ratio of EPA to DHA.
- MSC-certified—AlaskOmega® omega-3 concentrates are certified sustainable and traceable by the Marine Stewardship Council (MSC), the first omega-3 concentrate to achieve this distinction.
- NSF Certified for Sport—third-party tested for purity, potency and absence contaminants.
- Superior manufacturing process produces the market leading “fresher oil,” which translates into better product stability, longer shelf life and no “fish burps.”
- Mercury-free and contains no PCBs.
- Organic Technologies, producer of AlaskOmega® omega-3 fish oil concentrates and natural oils, has among the industry’s lowest product specification limits for oil oxidation and environmental contaminants.

Contraindications
Anyone taking greater than 3g per day should do so only under the care of their physician due to risk of excessive bleeding at higher doses. This product should not be used if the individual is on anticoagulants or has uncontrolled hypertension unless approved by personal physician. More than 3g per day may raise blood sugar and LDL cholesterol in people with diabetes using continuous large dosages. In all cases, consult with a physician.

Supplement Facts

<table>
<thead>
<tr>
<th>Amount Per Serving</th>
<th>% Daily Value*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calories</td>
<td>10</td>
</tr>
<tr>
<td>Calories from Fat</td>
<td>10</td>
</tr>
<tr>
<td>Total Fat</td>
<td>1 g 2%**</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fish Oil - AlaskOmega®</th>
<th>1000mg **</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPA (Eicosapentaenoic acid) (360 mg)</td>
<td></td>
</tr>
<tr>
<td>DHA (Docosahexaenoic acid) (240 mg)</td>
<td></td>
</tr>
</tbody>
</table>

* Percent Daily Values are based on a 2,000 calorie diet.
** Daily Value not established.
SuperCalcium+™

Purpose & Rationale
This product supplies bone building nutrients commonly low in Western diets in the amounts necessary to complement food intake to help build and maintain bone health throughout one’s lifespan. Osteoporosis results from an imbalance between bone deposition and resorption (breakdown). The consequent decline of bone mass increases the risk of fractures. Osteoporosis affects millions of people worldwide, predominantly postmenopausal women. In the United States, low bone mass is a threat for more than 40 million people. The significant departure in adulthood from the use of dairy products (especially milk) and the warnings on sun exposure have significantly reduced the ability of the U.S. population to acquire adequate levels of calcium and vitamin D through diet alone.

Typical Use
- For any adult not meeting the recommended intakes for calcium (1,000-1,300 mg/d) and required bone health co-factors (vitamin D, K, magnesium and boron) through diet, which is most of the U.S. population.
- Females: Take 1-2 tablets daily with meals. If needed, take 1 tablet with a morning meal and the second with an evening meal.
- Males: Take 1 tablet daily only if dietary calcium falls short of recommendations, unless supervised by a qualified health professional.

Unique Features
- Contains calcium, magnesium, vitamins D and K, which have all been shown to be crucial for bone health, including calcium utilization.
- Calcium and magnesium are prepared in their proper salt forms designed to optimize delivery and utilization.
- Vitamins K1 and K2 are included to maximize bone deposition of calcium.
- Boron is added to help maximize the role of vitamin D in bone health.
- This formula complements the use of other dotFIT products in order to allow the user to maintain a safe and optimal range of total nutrient intake.
- Manufactured in a facility that is in compliance with Good Manufacturing Practices (GMPs) exclusively for dotFIT.
- Third-party tested.

Contraindications
The use of calcium supplements by those with a history of kidney stones has varied results. Some individuals with a history of stones will benefit from the supplementation of calcium with food as it aids in the removal of oxalates. However, those with absorptive hypercalciuria may have an increased risk of stone formation although studies have found no connection with supplementation. Consult with a physician when a history of kidney stones exists, or when taking these drugs: biphosphonates, hydrogen blockers, levothyroxine, proton pump inhibitors, quinolones and tetracyclines. Excessive vitamin K does not increase the risk of blood clots, but those taking Warfarin (Coumadin®) for anticoagulation should avoid supplemental vitamin K because Warfarin is a vitamin K antagonist. In all cases, consult with a physician.

Supplement Facts
<table>
<thead>
<tr>
<th>Serving Size: 1-2 Tablets</th>
<th>Servings Per Container: 60 to 120</th>
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<tr>
<td></td>
<td>Amount 1 tablet</td>
</tr>
<tr>
<td>Vitamin D (as Cholecalciferol)</td>
<td>200 IU</td>
</tr>
<tr>
<td>Vitamin K (as phytomenadione K1 and menaquione K2)</td>
<td>30 mcg</td>
</tr>
<tr>
<td>Calcium (as carbonate)</td>
<td>500 mg</td>
</tr>
<tr>
<td>Magnesium (as oxide and citrate)</td>
<td>125 mg</td>
</tr>
<tr>
<td>Boron (as Sodium Borate)</td>
<td>1 mg</td>
</tr>
</tbody>
</table>

** = Daily Value not established.
UltraProbiotic™

Purpose & Rationale
This product supplies eight strains of the two most studied and used live microorganisms in adequate amounts to improve the natural balance of beneficial gut bacteria often disturbed by lifestyle and environmental factors. Proper use may help establish (re-colonize) and maintain the user’s intestinal microbial system to support the health and function of the gastrointestinal (GI) tract and subsequently other important systems of human health. Diet, natural aging and lifestyle, including intense exercise and other stresses, can upset proper bacteria harmony to a point where GI tract problems develop, triggering other negative health outcomes.\textsuperscript{127,128} Probiotics are live microorganisms, which, when proper strains are administered in adequate amounts, may offer health benefits to the user by restoring the balance in favor of the good bacteria.\textsuperscript{127,128,129,130,131,132}

Typical Use
- All adults (unless contraindicated by an existing health condition or discouraged by a qualified medical professional) trying to establish a healthy and balanced gut microflora to achieve the associated benefits of a healthy functioning GI tract (e.g. nutrient digestion, absorption, signaling and pathogen inhibition).
- Athletes participating in prolonged high-intensity or endurance activities seeking immune support.
- Those seeking to restore the natural balance of beneficial gut bacteria that may be compromised by diet, aging, weight and lifestyle, including stress.
- Take 1 capsule daily with a meal or as directed by a health professional.

Unique Features
- The select strains have been cultivated under harsh conditions, developing the ability to adapt to extreme changes in environment (e.g. pH and temperature).
- No refrigeration required. Contains the most stable cultures on the market using a patented polymatrix preservation system (Patent #6,653,062) to maximize stability and cell count without refrigeration.
- Each capsule starts with ~80 billion CFUs/capsule, thus assuring the desired live potency (minimum of 35 billion CFUs) reaches the intestinal targets at any time through the product’s shelf life.
- The prebiotic blend consists of FOS (food source for probiotics) and FiberAid® arabino galactans that help support the growth of probiotics.
- Third-party tested.
- Vegan friendly.

Contraindications
This product should be avoided by people with a predisposition to pathogenic infections, such as in severe immunodeficiency and short bowel syndrome, unless under a qualified physician’s care.\textsuperscript{133} Although probiotics are commonly used during pregnancy or lactation, they should only be used as recommended by the attending physician.\textsuperscript{134,135,136} In all cases, consult with a physician.

Supplement Facts

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Amount Per Serving</th>
<th>% DV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proprietary probiotic blend (35 billion cells per cap)</td>
<td>186 mg</td>
<td>*</td>
</tr>
<tr>
<td>\textit{Lactobacillus acidophilus} \textit{La-14}</td>
<td></td>
<td></td>
</tr>
<tr>
<td>\textit{Bifidobacterium lactis} \textit{Bi-04}</td>
<td></td>
<td></td>
</tr>
<tr>
<td>\textit{Lactobacillus salivarius} \textit{Ls-33}</td>
<td></td>
<td></td>
</tr>
<tr>
<td>\textit{Lactobacillus plantarum} \textit{Lp-115}</td>
<td></td>
<td></td>
</tr>
<tr>
<td>\textit{Bifidobacterium bifidum} \textit{Bb-02}</td>
<td></td>
<td></td>
</tr>
<tr>
<td>\textit{Bifidobacterium longum} \textit{Bl-05}</td>
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<td></td>
</tr>
<tr>
<td>\textit{Lactobacillus rhamnosus} \textit{Lr-32}</td>
<td></td>
<td></td>
</tr>
<tr>
<td>\textit{Lactobacillus bulgaricus} \textit{Lb-64}</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prebiotic blend \textit{(FOS, FiberAid®) arabino galactans}</td>
<td>50 mg</td>
<td>*</td>
</tr>
</tbody>
</table>

* Daily Value not established.
SuperiorAntioxidant™

Purpose & Rationale
This product supplies important natural compounds, often limited in human diets, that are not only necessary constituents of vital tissues, but also have been shown to possess powerful antioxidant and anti-inflammatory properties in specific areas that potentially reduce the risk of chronic or age-related disease. Intense, prolonged exercise, normal biological processes, including aging, can increase free-radical production and inflammation and associated body damage. The goals of these combined ingredients are to: 1) supply structural components limited by diet or age; 2) contain excess free radicals caused by normal biological processes, stress, aging, exercise and the environment, which is thought to be a major contributor to the aging process; and 3) help reduce inflammation related to disease.

Typical Use
• For individuals interested in reducing risk of chronic and age-related disease (including maintaining eye and brain health) by decreasing free-radical damage and common inflammation, while maintaining levels of energy producing catalytic compounds that otherwise decrease with age.
• Intense exercisers to reduce the increased free-radical production and damage associated with intense and prolonged training bouts.
• Take 1 tablet per day after main meal with fluid.
• Can be combined with a dotFIT multivitamin for maximum potential and associated benefits.

Unique Features
• Contains only the most effective researched antioxidants in their proper forms and amounts. Most competitive formulas are significantly under-formulated.
• Accurately complements the dotFIT multivitamin formulas.
• NSF Certified for Sport, verifying purity, potency and absence of contaminants.
• Vegetarian friendly.
• Uses the OptiBerry® blend, which is clinically proven to have superior antioxidant activity based on the ORAC (oxygen radical absorption capacity) scale.
• This formula considers use of other dotFIT products to help maintain a safe and optimal range of total nutrient intake.

Contraindications
This product is contraindicated in pregnancy and lactation due to a lack of clinical trials performed with this population (other than lutein and zeaxanthin) and for anyone suffering adverse reactions to any of the ingredients. In all cases, consult with a physician.

Supplement Facts

<table>
<thead>
<tr>
<th>Serving Size: 1 Vegetarian Capsule</th>
<th>Servings per Container: 30</th>
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<tbody>
<tr>
<td></td>
<td>Amount Per Serving</td>
</tr>
<tr>
<td>Alpha Lipoic Acid</td>
<td>200 mg</td>
</tr>
<tr>
<td>Co-Enzyme Q10 (CoQ-10)</td>
<td>100 mg</td>
</tr>
<tr>
<td>OptiBerry® Blend</td>
<td>30 mg</td>
</tr>
<tr>
<td>Wild blueberry (vaccinium angustifolium) fruit powder</td>
<td></td>
</tr>
<tr>
<td>Strawberry (fragaria chiloensis) fruit powder, Cranberry (vaccinium macrocarpon) fruit powder, Wild bilberry (vaccinium myrtillus) fruit extract, Elderberry (sambucus nigra) fruit extract, Raspberry (rubus idaeus) seed powder</td>
<td></td>
</tr>
<tr>
<td>Lycopene 10%</td>
<td>10 mg</td>
</tr>
<tr>
<td>Lutein 5%</td>
<td>6 mg</td>
</tr>
<tr>
<td>Zeaxanthin</td>
<td>5 mg</td>
</tr>
<tr>
<td>D. Salina natural mixed carotenoids</td>
<td>1.5 mg</td>
</tr>
</tbody>
</table>

* % Daily Value not established.
DigestiveEnzymes

Purpose & Rationale
This product supplies a digestive enzyme complex with five forms of naturally occurring digestive enzymes, α-amylase, lactase, lipase, cellulase and a neutral protease to support healthy digestion which is often compromised by western lifestyles including diet, stress, aging, chemicals, etc. Digestive enzymes are necessary for the proper breakdown of carbohydrates, proteins, milk-based products, oils, fats, fibers, and other food components to yield the nutritional constituents that are indispensable in human structural development, function and maintenance throughout life. By consuming these five supplemental enzymes, which are obtained from gastric-resistant microbial sources, the objective is to add to the body’s natural production to assist in proper digestion of foods to improve non-clinical digestive irregularities such as bloating, gas, cramps, and constipation while enhancing extraction/absorption of the nutrients (amino acids, vitamins, minerals, glucose, etc.) contained in foods. Additionally, some evidence supports the use of digestive enzyme supplementation (primarily proteases) for attenuating inflammation and enhancing exercise-induced muscle recovery.

Typical Use
• Take three (3) capsules total daily. Take one (1) capsule with each of three main meals or as directed by a health professional.
• Not recommended if contraindicated by an existing health condition or discouraged through qualified medical advice.
• If using solely for GI discomfort, and if after 30-days of proper use there is no change, there may be no reason to continue use for this goal.
• For exercisers to potentially reduce exercise-induced DOMS and improve nutrient uptake to enhance recovery.

Unique Features
DigestiveEnzymes 5-enzyme complex (DigeZyme) is from Sabinsa Corporation, a manufacturer with more than 120 scientists conducting ongoing research both in India and the United States.

• Contains microbe-derived enzymes, which have distinct advantages over animal-based enzymes
  o Survives the different pH levels in the GI tract for more activity throughout passage
  o Lower dosages with more potency
  o Heat stable - can operate in high temperatures
  o Economical and sustainable source
  o Vegan friendly and gluten free
• Specifications adhere to the most stringent international standards and regulatory norms – Food Chemicals Codex, an acceptable standard for the US FDA
• Contains lactase to help breakdown lactose from dairy and other foods and cellulase to specifically assist in helping manage the digestion of fibers
• Manufactured in a regularly inspected NSF certified facility, in compliance with Good Manufacturing Practices (GMPs)

Contraindications
Should be avoided during pregnancy or lactation because of lack of data or should only be used as recommended by the attending physician. According to the Natural Medicine Data Base, proteases may be contraindicated when taking anticoagulant/antiplatelet drugs and Amoxicillin (Amoxil, Trimox).^

Supplement Facts

<table>
<thead>
<tr>
<th>Serving Size: 1 Capsule</th>
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</thead>
<tbody>
<tr>
<td><strong>Amount</strong></td>
</tr>
<tr>
<td>Digestive Enzyme Complex (DigeZyme®)</td>
</tr>
<tr>
<td>Alpha Amylase (1200DU), Protease (300 PC), Cellulase (55 CU), Lactase (200 ALU), Lipase (10 FIP)</td>
</tr>
</tbody>
</table>

*Daily Value not established.
JointFlexPlus™

Purpose & Rationale
This product supplies natural components, which are not available through typical diets but are shown to help maintain joint and skin health, in proper amounts. Osteoarthritis (OA) is a condition of degeneration of the protective covering at bone articular surfaces (cartilage). Age and injury are associated with an increased risk of development with other associated lifestyle factors, such as obesity. The ingredients in this formula are designed to improve the ratio of the normal biological processes of cartilage degradation and synthesis to favor synthesis when compared to a non-supplemented state, and to provide lubrication to help enhance or maintain healthy joint tissue and function. The ingredients also help maintain the integrity of the extracellular matrix in the dermis below the skin, which is crucial for youthful skin appearance. Regular use over 12 weeks has been shown to reduce visible aging signs such as wrinkles and fine lines as well as the dehydration and scaling of the skin.

Typical Use
• Individuals concerned with joint and cartilage health
• For overuse or age-related joint discomfort
• Take 1 capsule in the morning and 1 capsule at night before a meal with least 8 oz. of fluid.
• For optimal results, take 2 capsules in the morning and 2 capsules at night before a meal or as directed by a health care professional.

Unique Features
• Contains the patented formula BioCell Collagen II.
• Dosages and compounds are in the amounts demonstrated by research to improve mobility, joint comfort and knee-joint strength.
• Formula considers use of other dotFIT products to help the user maintain a safe and optimal range of total nutrient intake.
• Manufactured in compliance with Good Manufacturing Practices (GMPs).
• Third-party tested.

Contraindications
The use of this formula is not recommended during pregnancy or lactation due to the absence of use data for these populations. No known contraindications exist at this time. In all cases, consult with a physician.

Supplement Facts

<table>
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<tr>
<th>Serving Size: 2 Capsules</th>
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<th>Amount Per Serving</th>
<th>% DV</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>BioCell Collagen® (Proprietary chicken sternal cartilage extract)</td>
<td>1,000 mg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Hydrolyzed Collagen Type II</td>
<td>600 mg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chondroitin Sulfate</td>
<td>200 mg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Hyaluronic Acid (HA)</td>
<td>100 mg</td>
</tr>
</tbody>
</table>

*% Daily Value (DV) not established.
AdvancedBrainHealth™

Purpose & Rationale
This product supplies nutrition that is often limited by typical diets and factors associated with the natural aging process, and shown to support healthy brain function, including potentially reducing the risk of age-related cognitive decline or disease. Several substances are showing the potential to support brain function and to slow (and possibly stop or reverse) age-related decline in mental function. These substances include phosphatidylserine (PS), acetyl-L-carnitine (ALC), alpha-lipoic acid (ALA) and vitamin B-12, which have been found to offer support to the maintenance of aging brain function. Following the middle-age years, supplementation with these compounds may balance a decline in the body’s production or absorption of these substances, which are essential for normal brain and neurological function. Clinical findings support the benefit of nutritional supplements for cognitive performance and mood/behavior and suggest that additional supplementation may be required for the elderly.

Unique Features
- Contains well-researched brain support substances in their proper amounts.
- Complements the dotFIT multivitamin, antioxidant and Omega-3 formulas.
- This formula considers use of other dotFIT products to help the user maintain a safe and optimal range of total nutrient intake.
- Manufactured in a facility in compliance with Good Manufacturing Practices (GMPs) exclusively for dotFIT.
- Third-party tested.

Contraindications
Contraindicated in pregnancy and lactation and for anyone suffering adverse reactions to any of the ingredients. In all cases, consult with a physician.

Typical Use
Typical dosage based on age and split with meals throughout the day:
- 45-55 years: One serving (4 capsules) per day with any meal
- 56-65 years: Two servings (8 capsules) per day. One serving (4 capsules) with the morning meal and one serving (4 capsules) with the evening meal.
- Over 65 years: Three servings (12 capsules) per day. One serving (4 capsules) with the morning meal and two servings (8 capsules) with the evening meal.

Supplement Facts

<table>
<thead>
<tr>
<th>Supplement Facts</th>
<th>Servings Per Container: 60</th>
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<tbody>
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<td>4 Softgel Capsules</td>
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<tr>
<td>Amount Per Serving</td>
<td>20 Calories</td>
</tr>
<tr>
<td>Calories from Fat</td>
<td>20 Vitamin B12 (as Cyanocobalamin)</td>
</tr>
<tr>
<td>Acetyl-L Carnitine</td>
<td>500 mg Phosphatidylserine</td>
</tr>
<tr>
<td>Alpha Lipoic Acid</td>
<td>100 mg ** Other Ingredients: Rice Bran Oil, Gelatin, Glycerin, Water, Beeswax, Sunflower Lecithin and Carob</td>
</tr>
</tbody>
</table>

* Percent Daily Value based on a 2,000 calorie diet.
** % Daily Value(DV) not established
Introduction to dotFIT Weight Loss Products

Dieting to lose weight without financial motivation is challenging for most everyone and generally ends with much of the weight regained within the first year. For those individuals seeking to reduce weight and/or body fat, dotFIT recommends exercise (significant physical activity including resistance training) and calorie-restricted meal planning based on a safe desired rate of loss. Appropriate supplementation, including a daily multivitamin and mineral formula (MVM) (at a minimum), may help individuals avoid the loss of lean body mass and fill unavoidable nutrient gaps caused by the restricted food intake and necessary calorie deficit for weight loss. This section explores the goal and rationale for the use of the very few dietary supplements that have demonstrated safety and success in assisting in weight and/or body-fat reduction and maintenance.

Dieting (calorie restriction) for weight loss and maintenance is difficult at best. During typical energy restriction, 25% of weight loss comes from lean body mass (LBM), also known as fat free mass (FFM). Greater losses of LBM may occur depending on the magnitude of the deficit. Although exercise helps protect LBM losses, exercise is not a weight-loss solution on its own. Weight regain is all but inevitable for most dieters as the body launches its evolutionary based natural weight-loss defenses. Primary reasons for difficulties in reaching and maintaining weight loss include: 1) a need to continuously decrease calorie intake to overcome natural plateaus caused by overall weight/LBM reduction and exercise-induced fitness improvements (both conditions can lead to a slower metabolism); 2) decreases in energy levels (e.g. daily fatigue); 3) increases in appetite/cravings; 4) environmental obstacles/influences (e.g. easy access to palatable foods, advertising, time constraints, inability to increase daily/exercise activities, etc.) driving people back to old habits; and 5) as mentioned above, due to the amount of exercise needed to achieve and sustain weight loss, exercise consistently has been shown to be an ineffective weight loss solution by itself.

Dietary supplements effectively addressing any or all the problems described above may be helpful in assisting users in avoiding or overcoming typical plateaus related to early weight loss without the otherwise obligatory increase in activity and/or decrease in food intake to continue desired weight/fat reduction. With the associated negative side effects and minimal results of many weight-loss prescription drugs (including those that have been pulled off the market), there is high interest in safe, natural and effective alternatives for assisting in weight management.

The goal of supplements in this category is to assist individuals in complying with the daily routine that leads to weight and/or body-fat reduction. The dietary supplements described in this section are currently used by thousands of practitioners for their clients in more than 1,000 facilities in North America. All supplement ingredients listed here have safely demonstrated the potential to act in one or more of the following ways:

- Help create and maintain a calorie deficit by increasing daily calorie expenditure when compared to a non-supplemented state
- Protect LBM loss during energy restriction
- Raise energy levels, which may help increase physical activity throughout the day
- Reduce the drive to consume food
- Decrease calorie absorption.
Other than the regular use of meal replacements, which can be used successfully throughout life as an adjunct to traditional daily food planning, the dieter would cease supplementation once the weight goal is achieved.
WeightLoss & LiverSupport™

Purpose & Rationale
The purpose of this product is to provide natural substances known to support the health and proper functioning of the liver, especially when unwanted fat accumulates as a result of weight gain, subsequently leading to non-alcoholic fatty liver disease (NAFLD). NAFLD and non-alcoholic steatohepatitis (NASH) are increasingly common chronic liver diseases closely associated with diabetes and overweight/obesity which have reached epidemic proportions in developed countries. Reports on the prevalence of NAFLD have suggested that 27-34% of the general population in the U.S. and 40-90% of the obese population worldwide have this disease. Weight gain and/or poor eating habits often lead to a fatty liver, which increases the oxidative stress on this vital organ and compromises its overall functioning including inhibiting the body's ability to control proper usage/burning of sugar and fat.

Typical Use
- Recommended for overweight and obese individuals to support a complete weight-loss program and liver health.
- Can be used alone or as part of the dotFIT LeanPak90.
- Take 1 tablet, three times daily, 30 minutes before meals with at least 8 oz. of fluid.
- Discontinue after reaching fat-loss goal.

Unique Features
- Potentially works at many different levels within the body (e.g. antioxidant, appetite control, and metabolism of liver fat and sugar) to support the loss of body fat and overall metabolism.
- Non-stimulant weight-loss aid.
- Can be used alone or as part of the LeanPak90.
- Manufactured in compliance with Good Manufacturing Practices (GMPs).
- Third-party tested.

Contraindications
WeightLoss & LiverSupport is contraindicated in pregnancy and lactation because of a lack of data for this population. Because of N-Acetyl Cysteine, do not take if using anticoagulant drugs or nitroglycerine. In all cases, consult with a physician.

Supplement Facts

<table>
<thead>
<tr>
<th>Serving Size: 1 Tablet</th>
<th>Amount Per Serving</th>
<th>% DV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green Tea (Camellia Sinensis) Leaf Extract</td>
<td>200 mg</td>
<td>*</td>
</tr>
<tr>
<td>[Standardized to 98% Polyphenols (196 mg), 80% Catechins (160 mg), 45% EGCG (90 mg), 2% Caffeine (naturally occurring 4 mg)]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Choline (as Choline Bitartrate)</td>
<td>133 mg</td>
<td>*</td>
</tr>
<tr>
<td>N-Acetyl Cysteine</td>
<td>50 mg</td>
<td>*</td>
</tr>
<tr>
<td>Milk Thistle (Silybum Marianum L.) Seed Extract</td>
<td>166 mg</td>
<td>*</td>
</tr>
<tr>
<td>[Standardized to 80% Silymarin]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Irvingia Gabonensis Seed Extract</td>
<td>150 mg</td>
<td>*</td>
</tr>
</tbody>
</table>

* Daily Value not established
CarbRepel™

Purpose & Rationale
The purpose of this product is to help reduce absorption of a significant percentage of ingested carbohydrate calories to help maintain or accelerate desired weight loss during a diet and exercise program, especially in people who tend to crave or overeat carbohydrates/sugars. The common white bean, Phaseolus vulgaris, produces an alpha-amylase enzyme inhibitor (the enzyme that breaks down carbohydrates and allows them to be absorbed into the body), which has been characterized and tested in numerous clinical studies. A specific and proprietary ingredient, Phase 2 Carb Controller®, has demonstrated the ability to enhance weight loss when compared to placebo with doses of 500 to 3,000 mg per day, in either a single dose or in divided doses by blocking the action of alpha amylase and produces superior results when compared with other starch/carbohydrate blockers with anti-amylase activity.

Typical Use
- Non-stimulant fat-loss and appetite aid for those who tend to overeat carbohydrates.
- Anyone seeking to enhance body-fat reduction without affecting the central nervous system.
- Can be used alone or as part of the LeanPak90.
- Take 2 tablets, twice daily, 30 minutes before the largest carbohydrate-containing meals or snacks with at least 8 oz. of appropriate fluid.
- Discontinue after reaching fat-loss goal or until lifestyle helps maintain desired progress.

Unique Features
- The all-natural ingredient Phase 2 Carb Controller® is the first nutritional ingredient to be clinically and scientifically proven to neutralize starch.

Contraindications
The compounds in CarbRepel are contraindicated in pregnancy and lactation because of a lack of data for this population. In all cases, consult with a physician.

Supplement Facts

<table>
<thead>
<tr>
<th>Amount Per Serving</th>
<th>% DV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phase 2 Starch Neutralizer®</td>
<td>750mg</td>
</tr>
<tr>
<td>White Kidney Bean Extract (Phaseolus vulgaris)</td>
<td></td>
</tr>
<tr>
<td>Citrus Pectin</td>
<td>375 mg</td>
</tr>
<tr>
<td>Pomegranate Fruit Extract (Total Polyphenols 110 mg, Ellagic Acid 55 mg)</td>
<td>137.5 mg</td>
</tr>
</tbody>
</table>

*Daily Value not established.
ThermAccel™

Purpose & Rationale
The purpose of this product is to increase total daily energy expenditure (calorie burn) by increasing resting energy expenditure and overall metabolism, including daily activities to accelerate or continue desired weight loss, especially when diet and exercise may be maximized based on acceptable lifestyle parameters. ThermAccel is uniquely formulated to deliver a “better stimulant effect” when compared to currently available popular energy formulas that often lead to “burnout” and related stress, including “end-of-day fatigue.” It is designed to produce balanced and enhanced energy levels that may help users increase voluntary daily activities. With the addition of ThermAccel, through its thermogenic effect (boosting metabolism by wasting calories as heat) and potential balanced energy boost, users may be able to avoid or overcome natural plateaus during weight reduction without having to continually “add more work.” A few natural plant extracts have demonstrated success with appetite control while restricting calories.\textsuperscript{185,186} Theoretically, these combined effects would ease the workload and mitigate hunger to allow continued weight reduction with less hardship.

Typical Use
- Adults without adverse effects to stimulants and seeking to accelerate weight loss, help control appetite and shorten plateaus.
- People who need a serious multi-pronged approach to weight control, including a strong stimulatory effect to help increase metabolism.
- Discontinue after reaching body-fat reduction goal or when lifestyle supports desired body-fat goal without assistance.
- Take 4 tablets daily, 2 at breakfast and 2 with lunch with at least 8 oz. of water.

Unique Features
- The thermogenic blend delivers a superior but balanced stimulatory effect, eliminating the end-of-day “burnout” associated with other thermogenic products.

- Formula and recommendations have no competitor based on its multiple body-fat reduction targets, which are designed to aggressively achieve the final desired outcomes.
- Contains Lepticore\textsuperscript{TM}, which has been awarded a patent and unique claims.
- Delivery system uses two-stage technology involving microspheres and macrospheres, providing immediate and prolonged activity for the entire day.
- Can be used alone or as part of the LeanPak90.
- Third-party tested.

Contraindications
This product is contraindicated for pregnant and lactating women and those under 18 years of age. Caffeine is contraindicated for those with anxiety, hypertension and thyroid disease. Caffeine can interfere with some medications such as lithium and MAO inhibitors. Caffeine is also contraindicated in those with heart disease, peptic ulcers and cardiac arrhythmias. Excessive caffeine should not be mixed with beta-agonists. Theoretically, concomitant use of large amounts of caffeine might increase cardiac inotropic effects of beta-agonists.\textsuperscript{187} Do not mix with diuretic drugs. Excessive amounts of caffeine in combination with diuretics may increase the risk of hypokalemia.\textsuperscript{188} In all cases, consult with a physician.

Supplement Facts

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Amount Per Serving</th>
<th>% DV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Caralluma Powder</td>
<td>520 mg</td>
<td>*</td>
</tr>
<tr>
<td>dotFIT\textsuperscript{®} Proprietary Lepticore\textsuperscript{®}</td>
<td>310 mg</td>
<td>*</td>
</tr>
<tr>
<td>(Proprietary Blend: Gum Arabic [Acaria arabica], Guar gum [Cyamopsis tetragonoloba], Locust Bean gum [Canadaria striata], Pomegranate fruit [Punica granatum] extract, Blue Green algae [Aphanizomenon flos-aquae] extract and beta-Carotene)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>L-Theanine</td>
<td>100 mg</td>
<td>*</td>
</tr>
<tr>
<td>ThermAccel\textsuperscript{TM} Thermogenic Complex</td>
<td>1,000 mg</td>
<td>*</td>
</tr>
<tr>
<td>Green Tea Extract (providing 750 mg ECGC), Caffeine (providing 350 mg of caffeine), Yerba Mate Powder, Guarana Seed Powder and Cayenne Fruit (standardized for 150,000 Heat Units)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* % Daily Value not established.
LeanMR™ Meal Replacement Shake Mix

Purpose & Rationale
The purpose of this product is to support weight/body-fat reduction and maintenance by delivering better, satisfying nutrition in fewer calories throughout the day by delivering energy and nutrients with low calories to help increase voluntary daily activities and increasing meal frequency within the necessary calorie allotment for weight/body-fat reduction or maintenance to support satiety, energy and activities. LeanMR also delivers accurate portion sizes to help correct the otherwise common underreporting of calorie intake that often sabotages weight control. The product incorporates a high whey protein and unique fiber formula to total calorie ratio to assist in maintaining lean body mass (LBM) and appetite control. Early studies demonstrated the use of meal replacements (MRs) to be an effective aid to weight reduction, and, in almost all cases, are shown to be more effective than conventional methods of dietary restriction. Additionally, MRs were shown to be just as effective as dietary restriction combined with pharmacological therapy and an important continuing protocol for maintaining weight loss. By 2009, meal replacements had risen to the “evidence-based” category as a weight loss and maintenance treatment.

Typical Use
- Generally used to replace one to two meals a day and allow freedom of choice from traditional foods for the remaining allotted meals and calories.
- For weight-loss maintenance, consume four to five meals/snacks daily that include two MRs for convenience and to help ensure overall diet quality while reducing food costs.

Unique Features
- Contains the highest quality whey protein isolate.
- Contains less than 1g of lactose per serving.
- Proprietary blend of carbohydrates, including functional fibers, delivers a “better lasting” energy and satiety to support aggressive weight loss goals.
- Contains no aspartame or sugar and relatively low sodium.
- 6-7g of fiber for satiety and health (including helping to maintain the integrity of the digestive track and bowel regularly).
- Healthy blend of essential fats.
- Does not contain unnecessary nutrients.

Contraindications
Contraindicated in those with allergies to milk or other ingredients contained in this product.

** Supplement Facts **

<table>
<thead>
<tr>
<th>Serving Size: 2 scoops (49.8g)</th>
<th>Serving Per Container: 20</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Amount Per Serving</td>
</tr>
<tr>
<td>Calories</td>
<td>180</td>
</tr>
<tr>
<td>Calories from Fat</td>
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</tr>
<tr>
<td>Total Fat</td>
<td>2 g</td>
</tr>
<tr>
<td>Saturated Fat</td>
<td>0.5 g</td>
</tr>
<tr>
<td>Trans Fat</td>
<td>0 g</td>
</tr>
<tr>
<td>Cholesterol</td>
<td>10 mg</td>
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<tr>
<td>Total Carbohydrate</td>
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<tr>
<td>Dietary Fiber</td>
<td>7 g</td>
</tr>
<tr>
<td>Sugars</td>
<td>0 g</td>
</tr>
<tr>
<td>Protein</td>
<td>21 g</td>
</tr>
<tr>
<td>Calcium</td>
<td>115 mg</td>
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<tr>
<td>Iron</td>
<td>2 mg</td>
</tr>
<tr>
<td>Sodium</td>
<td>140 mg</td>
</tr>
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</table>

** Sustained Release Carbohydrates Blend **
- 19.5 g Rice Maltodextrin, Digestion Resistant Maltodextrin (Fibersol-2), Isomaltulose, Glucomannan

** Lean Fats Blend **
- 2.5 g Flaxseed Powder, High Oleic Sunflower Oil, Conjugated Linoleic Acid

* Percent Daily Value based on a 2,000 Calorie Diet
** Daily Value Not Established
BestPlantProtein™

Purpose & Rationale
The purpose of this product is to supply a high-quality, non-animal protein source to help increase total protein intake or provide timely delivery of protein as needed. Proper use of highly rated protein sources (high digestibility and appropriate amino acid content) can deliver the exercise-induced higher protein requirements for exercisers and athletes while minimizing calories to achieve body composition goals. BestPlantProtein comes in a powdered mix form, which enables one to adjust the total meal (or daily) protein and other nutrient content as desired while remaining within a specific calorie allotment.

Typical Use
- A vegetable-based, low-calorie, source of protein for anyone pursuing weight/fat loss.
- For anyone who is not meeting protein requirements for specific goals, including anti-aging.
- As a pre-/post-workout supplement for vegan and vegetarian physique competitors or other weight/body-fat conscious athletes during the final weeks of competition dieting to meet protein requirements with fewer calories.
- For exercisers during intense training and especially when combined with calorie restriction for weight/fat loss.
- Suitable for those wanting a great tasting, convenient, high-quality and vegetable-based protein source.

Unique Features
- 21g of a high biological value protein, 7g of carbohydrates and 3g of healthy fat in only 130 calories.
- Co-factors from all-natural sources ensure nutrient uniformity and stability with good taste and easy mixing.
- Hypoallergenic, gluten free, non-GMO and contains no dairy or soy.

• No gas or bloating as is common with other plant-based protein powders.
• Contains less than 1g of sugar and uses the natural sweetener stevia.
• Formulated and manufactured for great taste and pleasing texture in a regularly inspected NSF certified facility, in compliance with Good Manufacturing Practices (GMPs) exclusively for dotFIT.
• Third-party tested.

Contraindications
There are no known contraindications with BestPlantProtein’s ingredients for healthy individuals.

### SUPPLEMENT FACTS

<table>
<thead>
<tr>
<th>Serving Size: 1 Scoop (34 g)</th>
<th>Amount Per Serving</th>
<th>% Daily Value*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calories</td>
<td>130</td>
<td></td>
</tr>
<tr>
<td>Calories from Fat</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Total Fat</td>
<td>3 g</td>
<td>5%</td>
</tr>
<tr>
<td>Saturated Fat</td>
<td>0.5 g</td>
<td>3%</td>
</tr>
<tr>
<td>Sodium</td>
<td>270 mg</td>
<td>11%</td>
</tr>
<tr>
<td>Potassium</td>
<td>160 mg</td>
<td>5%</td>
</tr>
<tr>
<td>Total Carbohydrate</td>
<td>7 g</td>
<td>2%</td>
</tr>
<tr>
<td>Dietary Fiber</td>
<td>1 g</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Sugars</td>
<td>&lt;1 g</td>
<td>**</td>
</tr>
<tr>
<td>Protein</td>
<td>21 g</td>
<td>42%</td>
</tr>
<tr>
<td>Calcium</td>
<td>65 mg</td>
<td>6%</td>
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<tr>
<td>Iron</td>
<td>7 mg</td>
<td>38%</td>
</tr>
<tr>
<td>Magnesium</td>
<td>40 mg</td>
<td>10%</td>
</tr>
<tr>
<td><strong>Multi Source Plant Protein Blend:</strong></td>
<td>23,855 mg</td>
<td>**</td>
</tr>
<tr>
<td>(Pea protein Isolate, Cranberry seed, Chia seed, Sacha Inchi seed)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Branch Chain Amino Acids:</strong></td>
<td>6,225 mg</td>
<td>**</td>
</tr>
<tr>
<td>(L-Leucine, L-Isoleucine and Valine)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Glutamine:</strong></td>
<td>3,475 mg</td>
<td>**</td>
</tr>
<tr>
<td>(Alpha-galactosidase and Bromelain)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Percent Daily Values are based on a 2,000 calorie diet.
** Daily Value not established.
Other Ingredients: Inulin, natural cocoa, natural chocolate, stevia, xanthan gum, natural flavors, glycine and silica.
dotFIT’s Position on the Use of Supplements for Enhancing Performance

Sports at all levels have become fiercely competitive, primarily because the rewards for winning continue to expand into previously unimaginable economic territories. Giving athletes the necessary competitive edge now requires sophisticated evolving nutrition and exercise protocols, including the proper integration of individualized dietary supplements. Additionally, because of improved methods and frequency of drug testing, athletes are seeking healthy legal alternatives to help enhance performance. Maximizing potential during high-level competition requires athletes and qualified trainers to leverage all available resources. In fact, surveys from the 2008 Olympics showed at least 90% of the 11,000 athletes reported the regular use of dietary supplements. Other polls of competitive athletes of all ages show the same numbers. Additionally, approximately 85% of health club participants regularly use dietary supplements to enhance health or exercise outcomes.

There is strong scientific and empirical evidence that a limited number of natural/bio substances, prepared in formulations matched from positive clinical trials and ingested properly within a training and nutrition plan, can safely improve recovery, muscle protein synthesis, time to exhaustion and training-induced size or performance for many athletes.

Performance Dietary Supplement Rationale

Competitive athletes and exercisers constantly seek physical improvement to remain competitive in their respective sport by attempting to make continuous strength and performance gains, or simply enhance exercise sessions over time, as with avid exercisers. Exercise stimulates natural human skeletal muscle synthesis and performance throughout life when compared to a non-exercise state. Various forms of mechanical loading (exercise design) initiate muscle protein’s related anabolic signaling and the mode, intensity and volume of exercise differentially affect signaling, thus long-term outcomes. The general goal of most athletes is to maximize the body’s natural muscle protein synthesis (MPS) processes, which include applying peak strength during exercise and recovering adequately from each training bout to constantly increase performance and if desired, increase skeletal muscle size. Thus, the athletes/exerciser’s goal is to continue to improve physically by making each training session build on the previous, leading to continuous athletic/physical progress since unaccustomed exercise continues to set the stage (initiates anabolism) for the desired muscle remodeling that would potentially improve performance/size. However, despite the constant initiation of MPS by exercise, positive training progress slows dramatically with age and experience, and training plateaus become common occurrences. This leads researchers and athletes to believe that something is missing (nutritionally) in the pre- or post-exercise period that would otherwise continue progression from proper unaccustomed training (at least until there is an unavoidable age decline*). In other words, exercise is only a continual trigger event for the desired result, leaving nutritional/bio-ingredient modulations to deliver the progressive outcome. These conditions set the stage for dietary supplementation when all else is equal and training and diet protocols are optimized for the desired progression.
Eventually, as in all aspects of life, age will become a factor in abating progress, but depending on age and level of training experience, this inevitable decline can be prolonged to a point where one has the greatest potential to not just extend their athletic success or "playing lifespan" but also remain self-sufficient throughout life.\textsuperscript{246,248,250}
AminoBoostXXL™

Purpose & Rationale
The purpose of this product is to supply the proper combination of specific essential amino acids that has been shown in clinical trials to speed recovery from continuous training bouts and enhance exercise-induced muscle protein synthesis (MPS) through specific pathways within a palatable, fast-acting and low-calorie delivery system. Through reduced recovery times and enhanced MPS, AminoBoostXXL (AB) may help exercisers and athletes avoid “overtraining and overreaching” syndromes or training plateaus. For the non-exercising adult population, AB may serve as a supplement to improve the otherwise declining normal net muscle protein balance that leads to the inevitable loss of muscle while aging. Proper use of AB delivers isolated essential amino acids (EAA) including high doses of leucine in appropriate amounts and ratios at precise times in relation to exercise to reduce normal muscle breakdown and stimulate synthesis. Because of its very low-calorie contents and ability to preserve lean body mass (LBM) during calorie restriction, it can serve as the essential pre- and post-exercise recovery and additive MPS stimulator supplement for athletes and exercisers involved in sports that require extremely low body fat and/or prolonged dieting to make weight classes. AB’s convenience and high palatability make it ideal for non-exercising adults to help offset age-related muscle loss (e.g. sarcopenia, which begins in the fourth decade) with a relatively low nitrogen load (compared to whole proteins), which may be especially important in the later stages of aging when appetite and organ function begin diminishing.

Typical Use
• All exercisers/athletes seeking continuous physical and performance progress.
• Recovery aid for exercisers/athletes to help reduce muscle soreness.
• May serve as the sole pre- and post-activity supplement for athletes requiring low body fat, prolonged restricted calorie dieting and/or weight restrictions.
• Ideal for recovery during multiple daily training sessions or tournament play.

• Can be used with NO7Rage™ and CreatineXXL™ as part of the dotFIT “Super Stack,” providing enhanced progressive exercise-induced results.
• All non-exercisers more than 30 years of age.

Unique Features
• Uses a leucine-enriched EAA blend that has been shown to increase muscle protein synthesis significantly in clinical trials with both adult athletes and non-athletes.
• The proprietary EAA composition is designed to increase availability of the EAA in proportion to their requirement for MPS and muscle deposition.
• High anabolic formula delivered in a palatable, low-calorie, relatively low-nitrogen drink.
• Can be used with NO7Rage and CreatineXXL as part of the dotFIT “Super Stack,” providing enhanced progressive exercise-induced results.
• NSF Certified for Sport for verification of purity, potency and absence of contaminants.

Contraindications
Not to be used by those with kidney disease, liver disease and phenylketonurics because it contains phenylalanine. Also contraindicated for pregnant or lactating females because it has not been tested in these groups and because protein can be adequately supplied by the diet for fetal growth or lactation needs.

Supplement Facts

<table>
<thead>
<tr>
<th>Serving Size: 1 Scoop (16 g)</th>
<th>Amount Per Serving</th>
<th>% Daily Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calories</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Total Carbohydrate</td>
<td>2 g</td>
<td>&lt;1%*</td>
</tr>
<tr>
<td>Sodium (as Sodium Chloride)</td>
<td>30 mg</td>
<td>4%</td>
</tr>
<tr>
<td>AminoBoost XXL Complex</td>
<td>11.9 g</td>
<td>**</td>
</tr>
<tr>
<td>L-Leucine</td>
<td>4 g</td>
<td>**</td>
</tr>
<tr>
<td>L-Phenylalanine</td>
<td>1.67 g</td>
<td>**</td>
</tr>
<tr>
<td>L-Leucine HCl</td>
<td>1.67 g</td>
<td>**</td>
</tr>
<tr>
<td>L-Threonine</td>
<td>1.3 g</td>
<td>**</td>
</tr>
<tr>
<td>L-Valine</td>
<td>1.1 g</td>
<td>**</td>
</tr>
<tr>
<td>L-Histidine Base</td>
<td>900 mg</td>
<td>**</td>
</tr>
<tr>
<td>L-Histidine</td>
<td>900 mg</td>
<td>**</td>
</tr>
<tr>
<td>L-Methionine</td>
<td>360 mg</td>
<td>**</td>
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</tbody>
</table>

* Percent Daily Value Based on a 2,000 Calorie Diet
** Daily Value Not Established
Creatine Monohydrate

Purpose & Rationale
The purpose of this product is to supply an NSF Certified for Sport (NSFCS) superior creatine supplement in its most clinically successful monohydrate form using the raw material Creapure® to maximize the well-known size and performance enhancing effects of creatine supplementation. This patented raw material helps creatine remain stable during digestion, thus making it almost fully available to the body. Proper dosing of creatine monohydrate (CM) may improve the ability of creatine supplementation to enhance training outcomes in various sports and types of exercise when compared to equal amounts of other creatine products. The goal of supplementing CM is to increase levels of creatine in the muscle and accelerate regeneration of creatine phosphate (PCr) beyond what can practically be achieved by diet alone. Creatine loading is much like the goal of carbohydrate loading by endurance athletes. However, instead of increasing glycogen storage, and thus delaying glycogen depletion, loading creatine would enhance PCr levels and delay its depletion and speed repletion. This practice would benefit strength and power activities, including sprinting and weightlifting, that are dependent on PCr as an energy source. Other sports that also require repetitive bursts of speed and power, such as specific intermittent team sports that combine intermittent aerobic and anaerobic activity (e.g., football, baseball, rugby and hockey), could also benefit from creatine supplementation.

Typical Use
- All adult athletes seeking to improve training outcomes related to lean body mass, strength and power activities, such as sprinting, weightlifting and jumping. Use of this product also translates to other sports requiring repetitive bursts of speed and power, such as specific intermittent team sports that combine intermittent aerobic and anaerobic activity (e.g., football, baseball, rugby and hockey).
- Older adults seeking healthier aging and improved daily living as recommended by a qualified physician.
- Aerobic or endurance athletes to potentially delay fatigue, especially under high heat conditions, and assist in post-exercise glycogen resynthesis.
- Creatine loading and maintenance strategy

- Mix 1 scoop (5g) with 4-8 oz. of fluid/shake and take four times daily with a carbohydrate containing meal/drink for first five days. Thereafter, take 1 scoop twice daily to maintain stores. To maximize creatine uptake, split doses throughout the day with meals/drinks containing carbohydrate and/or protein (depending on size and caloric allotment).
- On training days, use one dose before workout and one after with meals/drinks. May mix with your pre-/post-training formula.

Unique Features
- Contains Creapure®, a pure CM made in Germany, which helps creatine remain stable during digestion, rendering it almost fully available to the body, thus giving it more potential to enhance training outcomes when compared to equal amounts of other creatine products.
- Convenient powdered form with relatively neutral flavoring allows for easy mixing alone or with other products such as pre-/post-workout shakes
- NSF Certified for Sport (NSFCS), an independent third-party test, which ensures purity and potency for drug-tested athletes.

Contraindications
Although there is no supporting evidence, persons regularly using nephrotoxic drugs (drugs that harm kidney function) such as cyclosporine, aminoglycosides, gentamicin, nonsteroidal anti-inflammatory drugs (NSAIDs), naproxen and others, should not use high doses of creatine without a doctor’s consent.

Persons with bipolar disorder should consult a physician regarding creatine use as there have been reports of mania in people with this disorder.253

Supplement Facts

<table>
<thead>
<tr>
<th>Serving Size: 6.8g (1 heaping scoop)</th>
<th>Servings Per Container: 60</th>
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<tbody>
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<td>Amount Per Serving</td>
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<tr>
<td>Calories</td>
<td>5</td>
</tr>
<tr>
<td>Total Carbohydrate</td>
<td>1g</td>
</tr>
<tr>
<td>Creapure® Creatine Monohydrate</td>
<td>5g</td>
</tr>
</tbody>
</table>

* Percent Daily Values are based on a 2,000 calorie diet. ** % Daily Value not established.
ExtremeCreatineXXXL™

Purpose & Rationale
Supplies a stimulant-free, performance enhancing, product containing creatine monohydrate, beta-alanine, and glutamine. Proper dosing of creatine and beta-alanine alone or together safely improves training outcomes and performance in athletes participating in high-intensity activities, such as jumping, sprinting, weightlifting/bodybuilding. Additionally, it improves crossover activities, including team sports that require on and off bursts of power, such as football, baseball, rugby, and hockey. The addition of glutamine in an effective dose appears justified based on the named athletes now training at a higher level, thus requiring enhanced recovery mechanisms in pathways glutamine is known to stimulate. There is also a convenient and economical factor involved with ExtremeCreatineXXXL. Two daily servings have a clinically effective dose of all three ingredients (5 g of creatine, 3.2 g of beta-alanine, 7 g of glutamine), making it a 30-day supply of all three ingredients. Therefore, as a standalone supplement, it contains the maintenance doses of the three ingredients that deliver results. Although there will be almost immediate gains, it may take up to 25 days to start realizing maximum benefits based on bypassing the higher dose creatine and beta-alanine loading periods as shown in their respective PDSRG sections.

Typical Use
- All adult athletes and intense exercisers seeking to improve training outcomes related to lean body mass, strength, and power activities. Usage also translates to other sports requiring repetitive bursts of speed and power.
- As a stand-alone product:
  - Take two scoops daily to achieve immediate training benefits and reach near-maximum creatine and beta-alanine supplemented levels within 28 days. Continue throughout the desired training period (always take with some protein and carbohydrates, but within allotted calories based on body-composition goal).
  - To stack with other products for size and performance benefits, see Tables 1, 2, and 4.

Unique Features
- Contains Creapure®, a pure creatine monohydrate made in Germany, which helps creatine remain stable during digestion. This renders it almost fully available to the body, increasing its potential to enhance training outcomes when compared to other creatine products.
- Contains beta-alanine in a patented form known as CarnoSyn®.
- Contains L-glutamine in a stable, patented dipeptide form (magnesium glycyl glutamine chelate).
- Stimulant-free powdered form with relatively neutral flavoring to allow for easy mixing with other products.
- NSF Certified for Sport, an independent third-party test that ensures potency and purity for drug-tested athletes.
- Vegan-friendly.

Contraindications
Although there is no supporting evidence, persons regularly using nephrotoxic drugs (drugs that harm kidney function), such as cyclosporine, aminoglycosides, gentamicin, nonsteroidal anti-inflammatory drugs (NSAIDs), naproxen and others, should not use high doses of creatine without a doctor’s consent. Persons with bipolar disorder should consult a physician regarding creatine use since there have been reports of mania in people with this disorder. Any persons using anticonvulsants, (or any drug used for epilepsy) and Lactulose should avoid glutamine supplementation. Theoretically, glutamine might antagonize the anti-ammonia effects of lactulose because glutamine can be metabolized to ammonia.
## Supplement Facts

<table>
<thead>
<tr>
<th>Serving Size: 1 Rounded Scoop (10.7g)</th>
<th>% Daily Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calories: 5</td>
<td></td>
</tr>
<tr>
<td>Total Carbohydrate: 1g</td>
<td>0%</td>
</tr>
<tr>
<td>CreaPure® Creatine Monohydrate: 2.5g</td>
<td>*</td>
</tr>
<tr>
<td>CarnoSyn® Beta-Alanine: 1.6g</td>
<td>*</td>
</tr>
<tr>
<td>L-Glutamine: 3.5g</td>
<td>*</td>
</tr>
</tbody>
</table>

* Daily Value Not Established

Table 1 – Adult Performance & Size Stack 1 with AminoBoostXXL + Creatine Monohydrate + ExtremeCreatineXXXL

<table>
<thead>
<tr>
<th>Week</th>
<th>AminoBoostXXL (workout days only)</th>
<th>CreatineMonohydrate</th>
<th>ExtremeCreatineXXXL</th>
</tr>
</thead>
</table>
| 1    | • 1.5 scoops 10 minutes before workout  
     • 1 scoop immediately after workout | Loading phase:  
     • 1 scoop with 4-8 oz. of fluid and carbohydrate containing meal/drink 4 times a day for first 5 days (20 g/day total)  
     • 2 of the servings to be taken before and after workouts | Begin on 6th day:  
     • Workout days  
       o 1 scoop with pre-workout meal or shake  
       o 1 scoop with any other meal or shake  
     • Non-workout days  
       o 1 scoop with morning meal and 1 scoop with evening meal, separate from meals with CreatineMonohydrate for even distribution |
| 2    | • 1.5 scoops 10 minutes before workout  
     • 1 scoop immediately after workout | After first 5 days:  
     • 1 scoop daily with post workout shake (FirstString or Pre/Post Workout shake)  
     • 1 scoop with a meal on non-workout days | |
| 3 and beyond | • 1.5 scoops 10 minutes before workout  
     • 1 scoop immediately after workout | • 1 scoop with a meal on non-training days  
     • 1 scoop daily with post-workout shake on training days | • Workout days  
     o 1 scoop with pre-workout meal or shake  
     o 1 scoop with any other meal or shake  
     • Non-workout days  
       o 1 scoop with morning meal and 1 scoop with evening meal separate from meals with CreatineMonohydrate |
Table 2 – Adult Super Stack 2 for Size and Performance with AminoBoostXXL + ExtremeCreatineXXXL + NO7Rage

<table>
<thead>
<tr>
<th>Week</th>
<th>AminoBoostXXL (workout days only)</th>
<th>ExtremeCreatineXXXL</th>
<th>NO7Rage (workout days only)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>• 1.5 scoops 10 minutes before workout</td>
<td></td>
<td>• 1 scoop with pre-workout meal or shake (FirstString or Pre/Post Workout shake or WheySmooth)</td>
</tr>
<tr>
<td></td>
<td>• 1 scoop immediately after workout</td>
<td></td>
<td>• 1 scoop anytime with meal or shake</td>
</tr>
<tr>
<td>2</td>
<td>• 1.5 scoops 10 minutes before workout</td>
<td>Workout days</td>
<td>Non-workout days</td>
</tr>
<tr>
<td></td>
<td>• 1 scoop immediately after workout</td>
<td>• 1 scoop with pre-workout meal or shake (FirstString or Pre/Post Workout shake or WheySmooth)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• 1 scoop anytime with meal or shake</td>
<td></td>
</tr>
<tr>
<td>3 and beyond</td>
<td>• 1.5 scoops 10 minutes before workout</td>
<td>Workout days</td>
<td>Non-workout days</td>
</tr>
<tr>
<td></td>
<td>• 1 scoop immediately after workout</td>
<td>• 1 scoop with pre-workout meal or shake (FirstString or Pre/Post Workout shake or WheySmooth)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• 1 scoop anytime with meal or shake</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• 1-2.5 scoops ~10 minutes before workout, depending on weight and caffeine sensitivity (one scoop contains 175mg of caffeine)</td>
<td></td>
</tr>
</tbody>
</table>
WorkoutExtreme™

Purpose & Rationale
The purpose of this product is to deliver a combination of ingredients that demonstrate the ability to increase time to exhaustion or delay fatigue, especially in continuous intermittent intensity and endurance sports, while also delivering positive cognitive benefits, such as improving training desire, reaction time and focus. WorkoutExtreme can be used by anyone not bothered by stimulants, as a pre-workout or event energy enhancement supplement. Combining purified caffeine (anhydrous) with glucuronolactone and clinically favorable dose of taurine may enhance the well-known performance enhancing effects of caffeine alone. This product can be used in individually designed doses, which gives the user the potential to improve training sessions and competition outcomes when compared to no supplementation or commercially available “like-products” purporting similar outcomes.

Typical Use
- Adult exercisers/athletes not bothered by stimulants seeking to delay fatigue, and prolong and improve performance during exercise and events.
- Any adult not bothered by stimulants, as a pre-workout or event energy enhancement supplement or as a daily pick-me-up.
- For short to long event-duration/endurance activities (running, cycling, etc.):
  - Take 5 capsules 40-60 minutes before activity (totaling 350mg caffeine) unless caffeine sensitive, in which case start with 2 capsules and adjust as necessary, OR
  - Use 1.4 to 3 mg of caffeine per pound of body weight (not to exceed 600mg) and take 40-60 minutes before activity.
  - If competing, experiment to achieve proper dose and abstain from all caffeine, including WorkoutExtreme, approximately five days before competition (see Table 3).
- For intermittent athletes (e.g. football, baseball, soccer, hockey, rugby and swimming):
  - Take 5 capsules 40-60 minutes before activity (totaling 350mg caffeine) unless caffeine sensitive, in which case start with 2 capsules and adjust as necessary.
  - If using regularly, it is recommended to cycle use three weeks on and at least one week off, or use only as needed before activities.
- Should not be mixed with other stimulants or taken within four hours of other products containing stimulants (especially caffeine), such as coffee and energy drinks.

Unique Features
- A rare combination of clinically effective doses of both caffeine anhydrous and taurine, which may significantly amplify caffeine’s well-known performance enhancement effects.
- Uses a rapid-release capsule delivery system to maximize the formula’s potential and provide a timely impact on training intensity.
- Ideal dosing instructions for any activity.
- Manufactured in a regularly inspected NSF certified facility, in compliance with Good Manufacturing Practices (GMPs).
- Third-party tested.

Contraindications
Contraindicated in pregnancy and lactation because of caffeine content at higher dosages and because studies are not performed using this population with other ingredients. Taurine and caffeine may interfere with some medications, such as lithium and MAO inhibitors. While caffeine consumption does not increase the risk of developing hypertension, caffeine is contraindicated for those with hypertension, anxiety and thyroid disease. Caffeine is also contraindicated in those with cardiac arrhythmias, other forms of heart disease and peptic ulcers. Caffeine should not be mixed with beta-agonists because theoretically, concomitant use of large amounts of caffeine might increase cardiac inotropic effects of beta-agonists. Do not mix with diuretic drugs. Theoretically, excessive amounts of caffeine in combination with diuretics may increase the risk of hypokalemia. Although evidence that caffeine ingestion causes cardiac arrhythmias is inconclusive, individuals should consult with their physician before using WorkoutExtreme.

Supplement Facts

<table>
<thead>
<tr>
<th>Serving Size: 5 Capsules</th>
<th>Servings per Container: 30</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Amount Per Serving</td>
</tr>
<tr>
<td>Taurine</td>
<td>300 mg</td>
</tr>
<tr>
<td>Glucuronolactone</td>
<td>600 mg</td>
</tr>
<tr>
<td>Caffeine Anhydrous</td>
<td>350 mg</td>
</tr>
</tbody>
</table>

* % Daily Values not established.
Table 3 – Endurance Competitor Training Supplement Training Program—Workout Days Only

<table>
<thead>
<tr>
<th>Week</th>
<th>AminoBoostXXL</th>
<th>FirstString or WheySmooth (to control calories)</th>
<th>MuscleDefender</th>
<th>WorkoutExtreme</th>
</tr>
</thead>
<tbody>
<tr>
<td>1+</td>
<td>• 1 scoop 10 minutes before workout</td>
<td>• 1.5 scoops 30-40 minutes before workout</td>
<td>• 1 scoop</td>
<td>• 5 capsules 40-60 minutes before workout every other training day (total caffeine 350mg)</td>
</tr>
<tr>
<td></td>
<td>• 1 scoop immediately after workout</td>
<td>• 1.5 scoops 30-40 minutes after workout</td>
<td>• 1 scoop before workout</td>
<td>• Start with 2 capsules if caffeine sensitive</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• 1 scoop</td>
<td>• Do not take other stimulants within 4 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>immediately</td>
<td>• Discontinue 5 days before competition</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>after workout</td>
<td>• On competition day, take dosage as described above (5 capsules 40-60 minutes before activity)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• May mix with</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>AminoBoostXXL</td>
<td></td>
</tr>
</tbody>
</table>

6 weeks before competition

AminoBoostXXL: 1 scoop 10 minutes before workout, 1 scoop immediately after workout

FirstString or WheySmooth (to control calories): 1.5 scoops 30-40 minutes before workout, 1.5 scoops 30-40 minutes after workout

MuscleDefender: 1 scoop before workout, 1 scoop immediately after workout

WorkoutExtreme: 5 capsules 40-60 minutes before workout every other training day (total caffeine 350mg). Start with 2 capsules if caffeine sensitive. Do not take other stimulants within 4 hours. Discontinue 5 days before competition. On competition day, take dosage as described above (5 capsules 40-60 minutes before activity).
NO7Rage™

Purpose & Rationale
The purpose of this product is to deliver a combination of ingredients that demonstrate the ability to increase nitric oxide (NO) production to enhance blood and nutrient flow in and out of exercising muscles to amplify the training session and response. These novel NO booster ingredients are supplied together with other compounds known to improve strength and force production, and increase time to exhaustion and training endurance, while also delivering positive cognitive benefits such as improved training desire, reaction time and focus. This product has the ability, through multiple pathways, to significantly enhance strength, performance and size training induced outcomes when compared to similar mass-market products or a non-supplemented state. In addition, its stimulant properties, energy substrate contributions and muscle lactate buffering properties can dramatically improve the training session itself, setting the stage for greater gains when everything else is equal, such as recovery time and overall nutrition.

Typical Use
- As a pre-workout supplement for adults not adversely affected by caffeine, seeking sustained motivation before and during training, and an enhanced overall training or competition outcome.

Same as above plus a complementary ergogenic supplement for intermediate and advanced anaerobic athletes to enhance and continue size and/or strength gains from exercise (5g of creatine and 2,000mg of beta-alanine in two scoops). See NO7Rage inclusion in Table 4.

Unique Features
- Contains L-citrulline malate, which has been shown to be a more effective substrate than arginine for inducing NO production.
- Contains two novel forms of arginine, nitrosigine and agmatine sulfate. Both significantly increase plasma arginine to desired levels shown to enhance NO production.
- Contains a unique blend of taurine, glycerol and pine bark (pycnogenol) to enhance the pump during resistance training workouts.

- The proprietary flavoring generally appeals to a greater portion of users over competitive products.
- Can be used alone or with AminoBoostXXL, CreatineMonohydrate and/or CreatineXXL as part of the dotFIT “Loading and Stacking Programs.”
- Dosage instructions will be far more “efficacy accurate” per individual compared to other products.
- Third-party tested.

Contraindications
Contraindicated in pregnancy and lactation because of the central nervous system stimulant (caffeine) and due to a lack of ingredient studies with this population. Caffeine may interfere with some medications, such as lithium and MAO inhibitors. Caffeine is contraindicated in those with cardiac arrhythmias, other forms of heart disease, hyperthyroidism and peptic ulcers. Creatine is contraindicated for those with kidney problems because of potentially greater kidney stress. Do not use if taking erectile dysfunction drugs. The product should not be used by anyone with a heart condition or if the individual is using related medications. Do not use if taking medication for hypothyroidism.

Supplement Facts
Serving Size: 1 scoop (16 g)
Servings Per Container: 40

<table>
<thead>
<tr>
<th>Nutrition Fact</th>
<th>Amount Per Serving</th>
<th>% DV†</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calories</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Total Carbohydrate</td>
<td>2g</td>
<td>1%</td>
</tr>
<tr>
<td>Vitamin C (as ascorbic acid)</td>
<td>250 mg</td>
<td>417%</td>
</tr>
<tr>
<td>Vitamin E (as dl-alpha tocopheryl acetate)</td>
<td>30 IU</td>
<td>100%</td>
</tr>
<tr>
<td>Sodium</td>
<td>140 mg</td>
<td>6%</td>
</tr>
<tr>
<td>Potassium (as potassium citrate)</td>
<td>320 mg</td>
<td>9%</td>
</tr>
<tr>
<td>Creatine Monohydrate</td>
<td>2,500 mg</td>
<td>*</td>
</tr>
<tr>
<td>Taurine</td>
<td>2,000 mg</td>
<td>*</td>
</tr>
<tr>
<td>Glycerol Powder 65% (Hydromax™)</td>
<td>2,000 mg</td>
<td>*</td>
</tr>
<tr>
<td>L-Citrulline</td>
<td>1,000 mg</td>
<td>*</td>
</tr>
<tr>
<td>Beta-Alanine (as CarnoSyn®)</td>
<td>1,000 mg</td>
<td>*</td>
</tr>
<tr>
<td>Inositol Arginine Silicate (Nitrosigine™)</td>
<td>750 mg</td>
<td>*</td>
</tr>
<tr>
<td>Arginine Sulfate</td>
<td>500 mg</td>
<td>*</td>
</tr>
<tr>
<td>Glucuronolactone</td>
<td>400 mg</td>
<td>*</td>
</tr>
<tr>
<td>Caffeine</td>
<td>175 mg</td>
<td>*</td>
</tr>
<tr>
<td>Pine Bark (95% proanthocyanidins)</td>
<td>100 mg</td>
<td>*</td>
</tr>
<tr>
<td>Alpha Lipic Acid</td>
<td>10 mg</td>
<td>*</td>
</tr>
</tbody>
</table>

*Percent Daily Values are based on a 2,000 calorie diet.
†Daily value not established
### Table 4 – Adult Ultimate Stack for Size and Performance AminoBoostXXL + CreatineMonohydrate + ExtremeCreatineXXXL + NO7Rage

<table>
<thead>
<tr>
<th>Week</th>
<th>AminoBoostXXL (workout days only)</th>
<th>CreatineMonohydrate</th>
<th>ExtremeCreatineXXXL</th>
<th>NO7Rage (workout days only)</th>
</tr>
</thead>
</table>
| 1    | • 1.5 scoops 10 minutes before workout  
     • 1 scoop immediately after workout | Loading phase:  
     • 1 scoop with 4-8 oz. of fluid and carbohydrate containing meal or shake (FirstString or Pre/Post Workout shake or WheySmooth) 4 times a day for first 5 days.  
     • 2 of the servings to be taken before and after workouts.  
     After first 5 days:  
     • 1 scoop daily with post-workout shake | Beginning on sixth day:  
     • Workout days:  
       o 1 scoop with pre-workout meal or shake  
       o 1 scoop anytime with meal or shake  
     • Non-workout days:  
       o 1 scoop with morning meal or shake  
       o 1 scoop with evening meal or shake, separate from meals with Creatine Monohydrate for even distribution |  
| 2    | • 1.5 scoops 10 minutes before workout  
     • 1 scoop immediately after workout |  
| 3    | • 1.5 scoops 10 minutes before workout  
     • 1 scoop immediately after workout | • 1 scoop daily with post-workout shake  
     • 1 scoop with a meal on non-training days | Workout days:  
     • 1 scoop with pre-workout meal or shake  
     • 1 scoop anytime with meal or shake  
     Non-workout days:  
     • 1 scoop with morning meal or shake  
     • 1 scoop with evening shake, separate from meals with Creatine Monohydrate |  
| 4 and beyond | • 1.5 scoops 10 minutes before workout  
• 1 scoop immediately after workout | • 1 scoop daily with post-workout shake  
• 1 scoop with a meal on non-training days | Workout days:  
• 1 scoop with pre-workout meal or shake  
• 1 scoop any time with meal or shake  
Non-workout days:  
• 1 scoop with morning meal or shake  
• 1 scoop with evening shake, separate from meals with Creatine Monohydrate | • 1-2.5 scoops ~10 minutes before workout, depending on weight and caffeine sensitivity (one scoop contains 175mg of caffeine). May mix with AminoBoostXXL. |
MuscleDefender™

Purpose & Rationale
The purpose of this product is to supply L-glutamine in a stable patented dipeptide form (magnesium glycyl glutamine chelate) in order to greatly improve the ability of oral L-glutamine supplementation to function as an effective immuno-nutrient and support cell growth and survival during times of depletion brought on by various stresses. Replenishing glutamine during times of depletion caused by rapid growth, tissue repair or other high metabolic demands, particularly when combined with prolonged calorie restriction, may help to maintain health (immune support), including the integrity of the intestinal tract and enhance recovery as compared to a non-supplemented state. Because of the many important functions of glutamine, there is a dramatic increase in the net release of glutamine from peripheral tissues, including muscle, to central tissues (e.g. liver, and immune system) during inflammatory and other physically stressful conditions, giving rise to the basis of supplementation during clinical (e.g. trauma, infection and wound healing) and non-clinical (intense prolonged exercise) situations.

Typical Use
- Athletes and exercisers under prolonged demanding physical stress, especially when combined with extended periods of energy restriction as in weight/body-fat conscious athletes attempting to “make weight” or attain extremely low body fat.
- Anyone seeking to support the immune system, intestinal integrity and/or recovery related to exercise/physical-induced stresses, including to reduce the likelihood of overtraining/overreaching.
- Take approximately 0.1g/lb of body weight split three times daily with half the dose 40 minutes before exercise, one-quarter of the dose immediately following, and the last quarter spaced at least eight hours from other doses to maximize the highest potential to achieve stated goals.
- Example for a 175-pound athlete: ~18g/day with activity taking place at 8:00 AM
  - 9g at 7:20 AM (with pre-workout protein and carbohydrate formula/shake)
  - 4.5g immediately following activity (e.g. 11:00 AM)
  - 4.5g before bed or mid-evening.
- Long duration activities (>3 hours) or continuous daily bouts with intermittent rest periods may require dosing during the span of all activities.

Unique Features
- An easy-to-mix powder that can be added to other nutrition products, including sports drinks and shakes.
- Synergistic with all other dotFIT products.
- Contains L-glutamine in a dipeptide patented, stabilized compound (Magnesium-Glycyl-Glutamine) from Albion for potentially greater absorption and ability to reach desired target tissues.
- NSF Certified for Sport, which verifies purity, potency and absence of contaminants.

Contraindications
Contraindicated in those with kidney problems or at risk for kidney disease because of possible increased kidney stress. Unless supervised by a qualified health professional, glutamine supplementation should be avoided by children and pregnant or lactating women because of the lack of studies done in these populations. Any persons using anticonvulsants (or any drug used for epilepsy) and/or Lactulose should avoid glutamine supplementation. Theoretically, glutamine might antagonize the anti-ammonia effects of lactulose because glutamine can be metabolized to ammonia.

Supplement Facts

<table>
<thead>
<tr>
<th>Serving Size</th>
<th>5.4g (1 level scoop)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serving Per Container</td>
<td>70</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nutrient</th>
<th>Amount Per Serving</th>
<th>% DV*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnesium (as magnesium glycinate glutamine chelate)</td>
<td>34 mg</td>
<td>9%</td>
</tr>
<tr>
<td>Chromium (as chromium nicotinate glycinate chelate)</td>
<td>150 mcg</td>
<td>125%</td>
</tr>
<tr>
<td>L-Glutamine</td>
<td>5 g</td>
<td>**</td>
</tr>
</tbody>
</table>

*Percent Daily Values are based on a 2,000 calorie diet.
** % Daily Value not established.
Recover&Build™

Purpose & Rationale
The purpose of this product is to supply the branched chain amino acids (BCAAs) valine, isoleucine and, most importantly, leucine at specific times and in amounts consistent with clinical trials that demonstrate the ability of BCAA supplementation to reduce muscle damage, soreness and potentially enhance recovery and muscle protein synthesis (MPS) initiated from exercise. BCAA supplementation may be especially useful during prolonged energy restriction, continuous high-intensity activity, extended exercise bouts or any combination of these conditions. Proper dosing supplies a low-calorie, isolated group of amino acids with a high affinity towards peripheral tissues (skeletal muscles) rather than liver metabolism, which happens to most other amino acids involved in MPS. The BCAAs are metabolized to become available for protein synthesis and energy production. Therefore, during exercise, appropriate supplementation may increase BCAAs in the body’s “amino acid pool” to spare endogenous BCAA stores from catabolism (reduce muscle breakdown), delay fatigue and help supply additional substrate for MPS and energy.

Typical Use
- Athletes and exercisers of any fitness level, during intense or excessive training bouts to decrease muscle breakdown and enhance recovery, and not using AminoBoostXXL (AB).
- Anyone attempting body-fat reduction while maintaining or increasing lean body mass and not using AB.
- For intermittent activity (most team sports >1.5 hours, including combined intermittent aerobic and anaerobic activity, such as football, soccer, basketball, baseball, rugby and hockey) and strenuous endurance exercise for reducing fatigue factors (rates of perceived exertion and mental fatigue).

- Minimum dose: Take 8 tablets 20-30 minutes before workout.
- If over 175 lbs, take 8 tablets 20-30 minutes before workout and 2-4 tablets during activity (~midpoint).

Unique Features
- Contains leucine, isoleucine and valine in a ratio and potency supported by clinical evidence.
- Manufactured in a regularly inspected NSF certified facility in compliance with Good Manufacturing Practices (GMPs) and third-party tested exclusively for dotFIT.

Contraindications
BCAAs are contraindicated for those with the hereditary disorder maple syrup urine disease. This product, as with any protein or creatine-containing supplement, is contraindicated for users with kidney or liver disease. Recover&Build is also contraindicated for pregnant or lactating females because it has not been tested in these groups and because protein can be adequately supplied by the diet for fetal growth or lactation needs.

SUPPLEMENT FACTS
Serving Size: 8 Tablets  
Servings Per Container: 20

<table>
<thead>
<tr>
<th>Amount Per Serving</th>
<th>% Daily Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-Leucine</td>
<td>5600 mg **</td>
</tr>
<tr>
<td>L-Isoleucine</td>
<td>1920 mg **</td>
</tr>
<tr>
<td>L-Valine</td>
<td>1920 mg **</td>
</tr>
</tbody>
</table>

** % Daily Value not established.
FirstString™

Purpose & Rationale
The purpose of this product is to provide an NSF Certified for Sport and NCAA-compliant shake formula containing ideal performance enhancing nutrition that can be properly integrated within daily meal planning and training protocols. Based on current scientific evidence, FirstString is designed to provide the ideal rapidly digesting powdered “food-form” training formula for size, strength and performance athletes, further defined as purely anaerobic (e.g. off-season bodybuilders, power lifters and sprinters), intermittent (most team sports involving intermittent aerobic and anaerobic activity, such as football, soccer, basketball, baseball, rugby, and hockey) and short- to medium-distance endurance athletes. The low-fat and 2:1 ratio of carbohydrates to protein in this formula is designed to help fulfill the athlete’s macronutrient needs throughout the day. Because of its rapid digesting whey protein and specialized carbohydrate mix, FirstString also provides the perfect pre-/post-workout formula to maximize training/competition and subsequent outcomes. If more carbohydrate is needed, as for endurance athletes or carbohydrate loading, it can be added to the mix.

Typical Use
- For athletes of all ages, including those who are drug tested and whose primary goals are maximizing growth and performance including muscle protein synthesis (MPS) and recovery from strenuous activity.
- As a pre-workout supplement, consume the amount below 30-40 minutes prior to activity based on body size:
  - 100-150 lbs.: 1.5 scoops
  - 151-200 lbs.: 2 scoops
  - 201-250 lbs.: 3 scoops
  - >250 lbs.: 4 scoops
- Immediately following training, repeat the same dose unless also using AminoBoostXXL. If also using AminoBoostXXL, consume FirstString 30 minutes following the immediate post-exercise dose of AminoBoostXXL.
- As a meal replacement or weight-gain supplement, use as needed throughout the day to meet individual goals for protein, carbohydrates, calorie and nutrient timing.
- Anyone wanting a great tasting, convenient meal replacement and/or additional protein source.

Unique Features
- The carbohydrate content satisfies the profile for maximizing protein synthesis while fitting into a “low sugar” claim, which appeals to prevailing perceptions. Two scoops contain 2g of protein, 45g of carbs and 3g of sugar.
- Sophisticated, ideal blend of the highest quality fast and extended acting proteins.
- Co-factors ensure nutrient uniformity and stability with great taste and easy mixing.
- No gas or bloating with only 2.5g of lactose per serving.
- Synergistic with all other dotFIT products and normal diet. dotFIT powders are NOT “spiked” with unnecessary nutrients, unlike most other products in this space (e.g. bars, shakes and ready-to-drinks). Combining multiple products from various manufacturers and food intake can lead to excessive nutrient intake. When consuming only dotFIT products as directed with one’s normal diet, the body’s nutrient levels are kept at a safe and optimal range.
- NCAA-approved protein product and NSF Certified for Sport, which is an additional product guarantee for drug-tested athletes. More info is available at [http://www.dotFIT.com/nsf](http://www.dotFIT.com/nsf)

Contraindications
FirstString is contraindicated in people who cannot consume milk proteins.

### Nutrition Facts

<table>
<thead>
<tr>
<th>Serving Size: 2 Scoops (73g)</th>
<th>Servings Per Container: About 32</th>
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</thead>
<tbody>
<tr>
<td>Calories 290</td>
<td>Fat Cal, 30</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Amount Per Serving</th>
<th>% Daily Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Fat</td>
<td>2.5g</td>
</tr>
<tr>
<td>Saturated Fat</td>
<td>0g</td>
</tr>
<tr>
<td>Trans Fat</td>
<td>0g</td>
</tr>
<tr>
<td>Cholesterol</td>
<td>5mg</td>
</tr>
<tr>
<td>Sodium</td>
<td>70mg</td>
</tr>
<tr>
<td>Total Carbohydrate</td>
<td>14g</td>
</tr>
<tr>
<td>Dietary Fiber</td>
<td>0g</td>
</tr>
<tr>
<td>Sugars</td>
<td>3g</td>
</tr>
<tr>
<td>Protein</td>
<td>20g</td>
</tr>
</tbody>
</table>

- **Vitamin A (as Beta Carotene)**: 1000IU, 6%
- **Vitamin C (as Ascorbic acid)**: 8mg, 5%
- **Vitamin D (as Cholecalciferol)**: 20IU, 5%
- **Vitamin E (as D-Alpha Tocopheryl succinate)**: 1.5IU, 5%
- **Vitamin B1 (Thiamine Hydrochloride)**: 0.075mg, 5%
- **Biotin**: 0.006mg, 5%
- **Nicin (as Nicotinamide)**: 1mg, 5%
- **Vitamin B6 (as Pteroylglutamic acid)**: 0.1mg, 5%
- **Vitamin B12 (as Cyanocobalamin)**: 0.3mcg, 5%
- **Bulf**: 1mg, 5%
- **Pantothenic acid (as d-Calcium Pantothenate)**: 1.5mg, 5%
- **Calcium (as Calcium Lactate Gluconate)**: 125mg, 5%
- **Iron (as Ferrous Sulfate)**: 0.5mg, 3%
- **Iodine (as Potassium Iodate)**: 0.6mg, 1%
- **Magnesium (as Magnesium Phosphate)**: 20mg, 5%
- **Zinc (as Zinc Sulfate)**: 0.075mg, 5%
- **Copper (as Copper Sulfate)**: 0.1mg, 5%
- **Vitamin B6 (as Pteroylglutamic acid)**: 0.006mg, 5%
- **Vitamin B12 (as Cyanocobalamin)**: 0.3mcg, 5%
- **Bulf**: 1mg, 5%
Pre/Post Workout Formula

Purpose & Rationale
The purpose of this product includes one or more of the following: 1) a meal replacement as needed for weight loss and/or weight maintenance; 2) meal or daily supplement for weight gain; 3) before and after workout formula to enhance exercise-induced results; and/or 4) daily protein supplement to help meet the current higher protein recommendations for active persons. While each of the dotFIT powders have a more specific role (LeanMR for weight loss, WheySmooth for low-calorie pre/post workout and protein supplementation and/or low-carbohydrate weight loss meal replacement (MR), FirstString primarily for performance and/or muscle/weight gain goals), Pre/Post Workout Formula is the only dotFIT powder that may be used (as it exists in its native form) as described for any goal (performance, health, weight loss, or muscle gain).

Typical Use
- As a pre- and post-workout supplement for performance goals, consume the amounts below 30-40 minutes before exercise based on body size:
  - 100-150 lbs.: 1.5 scoops
  - 151-200 lbs.: 2 scoops
  - 201-250 lbs.: 3 scoops
  - >250 lbs.: 4 scoops
- Immediately following training, repeat the same dose unless also using AminoBoostXXL (see muscle stacking). If using AminoBoostXXL, consume Pre/Post Workout Formula 30 minutes following the immediate post-exercise dose of AminoBoostXXL.
- As a meal replacement for weight/fat loss, use Pre/Post Workout Formula to supply two small meals within any calorie-restricted meal plan of >4 meals per day. As a weight-gain supplement, use as needed throughout the day to meet individual protein, carbohydrate, calorie and nutrient timing goals.
- Anyone seeking a great tasting, convenient meal replacement and/or additional protein source.

Unique Features
- Carbohydrate content satisfies the necessary profile for maximizing protein synthesis while fitting into a “low sugar” claim, which appeals to prevailing perceptions. One serving contains 21g of protein, 33-35g of carbohydrates and only 3g of sugar.
  - Sophisticated, ideal blend of the highest quality fast and extended acting proteins.
  - No aspartame and relatively low in sodium.
  - Co-factors ensure nutrient uniformity and stability with great taste and easy mixing.
  - No gas or bloating as is common with other protein powders. Less than 1.5g of lactose per serving.
  - Synergistic with all other dotFIT products and traditional food intake. dotFIT powders are NOT “spiked” with unnecessary nutrients. Most other products in this space (e.g. bars, shakes and ready-to-drinks) are heavily spiked with many nutrients that can lead to undesirable levels within the body when combining multiple manufacturers, products and normal food intake. When consuming only dotFIT products as directed with one’s normal daily food intake, the body’s nutrient levels are kept at a safe and optimal range.

Contraindications
Pre/Post Workout Formula is contraindicated in people who cannot consume milk proteins.

Nutrition Facts

<table>
<thead>
<tr>
<th>Serving Size: 2 Scoops (61g)</th>
<th>Servings Per Container: 20 servings</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Amount Per Serving</strong></td>
<td></td>
</tr>
<tr>
<td>Calories 240</td>
<td>Calories from Fat 25</td>
</tr>
<tr>
<td>% Daily Value*</td>
<td></td>
</tr>
<tr>
<td>Total Fat 2.5g</td>
<td>4%</td>
</tr>
<tr>
<td>Saturated Fat 1g</td>
<td>9%</td>
</tr>
<tr>
<td>Trans Fat 0g</td>
<td></td>
</tr>
<tr>
<td>Cholesterol 60mg</td>
<td>20%</td>
</tr>
<tr>
<td>Sodium 140mg</td>
<td>6%</td>
</tr>
<tr>
<td>Total Carbohydrates 33g</td>
<td>1%</td>
</tr>
<tr>
<td>Dietary Fiber 0g</td>
<td>0%</td>
</tr>
<tr>
<td>Sugar 2g</td>
<td></td>
</tr>
<tr>
<td>Protein 21g</td>
<td>42%</td>
</tr>
<tr>
<td>Vitamin A 0%</td>
<td></td>
</tr>
<tr>
<td>Vitamin C 0%</td>
<td></td>
</tr>
<tr>
<td>Calcium 15%</td>
<td>Iron 2%</td>
</tr>
</tbody>
</table>

*Percent Daily Values are based on a 2,000 calorie diet.
**% Daily Value not established.
WheySmooth™

Purpose & Rationale
The purpose of this product is to deliver a high-quality protein source to help increase protein intake as needed while simultaneously minimizing calories for athletic training and body-composition goals. WheySmooth comes in a powdered mix form, which enables one to adjust the total meal (or daily) protein and other nutrient content as desired and remain within a specific calorie allotment. Because of whey protein’s superior absorption and amino acid profile, specifically essential amino acids (EAA) compared to other sources, the purpose of WheySmooth is to improve all mechanisms of action related to muscle protein synthesis (MPS), diet and training outcomes. Therefore, when compared to other complete protein sources, WheySmooth can improve lean body mass preservation and appetite control during weight loss, leading to favorable body composition changes. Additionally, it can maximize MPS throughout the day, which optimizes training-induced muscle hypertrophy and performance. The product also enables the consumption of more protein (EAA) with fewer calories for lifelong weight control while staving off inevitable age-related muscle loss. Other potential health benefits include immune system support.

Typical Use
- Ideal for athletes and exercisers seeking to acquire the highest amount of protein with the fewest number of calories in order to maximize training induced size, performance, strength, and body-composition outcomes.
- For anyone pursuing weight/fat loss, WheySmooth is ideal as a high-protein, low-calorie protein source.
- Anyone who is not meeting protein requirements for specific goals, including higher amounts needed for exercise and aging.
- As a pre-/post-workout supplement for physique competitors or other weight/body-fat conscious athletes during the final weeks of competition dieting, helping to meet protein requirements with fewer calories.

Unique Features
- 25g of the highest biological value protein, 8g of carbohydrates and 2.5g of healthy fat in only 160 calories.
- Co-factors ensure nutrient uniformity and stability with great taste and easy mixing.
- No gas or bloating as is common with other protein powders. Less than 2.5g of lactose per serving.
- Contains only 2g of sugar.
- Aspartame-free.
- NSF Certified for Sport, which independently verifies purity, potency and absence of contaminants. Learn more at http://www.dotFIT.com/nsf

Contraindications
WheySmooth is contraindicated in people who cannot consume milk proteins.

Nutrition Facts
Serving Size: 1 Scoop (40g)
Servings Per Container: approximately 28.5 servings

<table>
<thead>
<tr>
<th>Amount Per Serving</th>
<th>Calories 160</th>
<th>Calories from Fat 25</th>
</tr>
</thead>
<tbody>
<tr>
<td>% Daily Value*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Fat</td>
<td>2.5g</td>
<td>4%</td>
</tr>
<tr>
<td>Saturated Fat</td>
<td>1g</td>
<td>6%</td>
</tr>
<tr>
<td>Trans Fat</td>
<td>0g</td>
<td>1%</td>
</tr>
<tr>
<td>Cholesterol</td>
<td>7mg</td>
<td>1%</td>
</tr>
<tr>
<td>Sodium</td>
<td>125mg</td>
<td>5%</td>
</tr>
<tr>
<td>Total Carbohydrate</td>
<td>8g</td>
<td>3%</td>
</tr>
<tr>
<td>Dietary Fiber</td>
<td>9g</td>
<td>4%</td>
</tr>
<tr>
<td>Sugars</td>
<td>2g</td>
<td></td>
</tr>
<tr>
<td>Protein</td>
<td>25g</td>
<td></td>
</tr>
</tbody>
</table>

Vitamin A: 0%  Vitamin C: 0%
Calcium: 15%  Iron: 8%

*Percent Daily Values are based on a 2,000 calorie diet.
** % Daily Value not established.

Calories: 2,000  2,500
Total Fat Less than 65g  46g
Saturated Fat Less than 20g  25g
Cholesterol Less than 300mg  300mg
Sodium Less than 2,400mg  2,400mg
Potassium 3,500mg  3,500mg
Total Carbohydrate 300g  375g
Dietary Fiber 25g  30g
Calories per gram: Fat 9 • Carbohydrate 4 • Protein 4
All Natural WheySmooth™

Purpose & Rationale
The purpose of this product is to deliver a high-quality protein source to help increase protein intake as needed while simultaneously minimizing calories for athletic training and body composition goals. All Natural WheySmooth comes in a powdered mix form, which enables one to adjust the total meal (or daily) protein and other nutrient content as desired and remain within a specific calorie allotment. Because of whey protein’s superior absorption and amino acid profile, specifically essential amino acids (EAA) compared to other sources, the purpose of All Natural WheySmooth is to improve on all mechanisms of action related to muscle protein synthesis (MPS), diet and training outcomes. Therefore, when compared to other complete protein sources, All Natural WheySmooth can improve lean body mass preservation and appetite control during weight loss, leading to favorable body composition changes. Additionally, it can maximize MPS throughout the day, which optimizes training-induced muscle hypertrophy and performance. The product also enables the consumption of more protein (EAA) with fewer calories for lifelong weight control while staving off inevitable age-related muscle loss. Other potential health benefits include immune system support.

Unique Features
- Contains 140 calories per serving
- 0.3:1 ratio of carbohydrates to protein.
- Contains 25g of high-quality protein per serving (whey protein concentrate and whey protein isolate).
- Grass-fed, non-GMO, rBGH-free, gluten-free.
- Stevia-sweetened
- No artificial colors or flavors.
- Whey protein is domestic, and the product is manufactured in the USA.

Contraindications
WheySmooth is contraindicated in people who cannot consume milk proteins.

Typical Use
- Ideal for athletes and exercisers seeking to acquire the highest amount of protein with the fewest number of calories to maximize training-induced size, performance, strength, and body-composition outcomes.
- For anyone pursuing weight/fat loss, All Natural WheySmooth is ideal as a high-protein, low-calorie protein source.
- Anyone who is not meeting protein requirements for specific goals including higher amounts needed for exercise and aging.
- As a pre-/post-workout supplement for physique competitors or other weight/body-fat conscious athletes during the final weeks of competition dieting, to meet protein requirements with fewer calories.
- Any exerciser during intense training, especially when combined with calorie restriction.
- Anyone seeking a great tasting, convenient, and high-quality, all-natural protein source.

SUPPLEMENT FACTS
Serving Size: 1/2 Scoops (Approx. 35.3 g)
Servings Per Container: 26

<table>
<thead>
<tr>
<th>Nutrient</th>
<th>Amount Per Serving</th>
<th>% Daily Value*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calories</td>
<td>140</td>
<td></td>
</tr>
<tr>
<td>Calories from Fat</td>
<td>15</td>
<td>2%</td>
</tr>
<tr>
<td>Total Fat</td>
<td>1.5 g</td>
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</tr>
<tr>
<td>Saturated Fat</td>
<td>1 g</td>
<td>5%</td>
</tr>
<tr>
<td>Cholesterol</td>
<td>65 mg</td>
<td>2%</td>
</tr>
<tr>
<td>Sodium</td>
<td>65 mg</td>
<td>3%</td>
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<tr>
<td>Potassium</td>
<td>250 mg</td>
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<tr>
<td>Total Carbohydrate</td>
<td>6 g</td>
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<tr>
<td>Sugars</td>
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</tr>
<tr>
<td>Protein</td>
<td>25 g</td>
<td>50%</td>
</tr>
</tbody>
</table>

*Percent Daily Values are based on a 2,000 calorie diet. Your daily values may be higher or lower depending on your calorie needs.

**Daily Value not established
References


15. Yayuan Zheng1, Jianhong Zhu1, Manru Zhou1, Liao Cui1, Weimin Yao2, Yuyu Liu1 Meta-Analysis of Long-Term Vitamin D Supplementation on Overall Mortality 1 Department of Pharmacology, Guangdong Medical College, Zhanjiang, China, 2 Institute of Respiratory Disease, Guangdong Medical College, Zhanjiang, China.


Kimberly A Skarupski, Christine Tangney, Hong Li, Bichun Ouyang, Denis A Evans, and Martha Clare Morris. Longitudinal association of vitamin B-6, folate, and vitamin B-12 with depressive symptoms among older adults over time. Am J Clin Nutr 2010 92: 330-335.


Yayuan Zheng, Jianhong Zhu, Manru Zhou, Liao Cui, Weimin Yao, Yuyu Liu. Meta-Analysis of Long-Term Vitamin D Supplementation on Overall Mortality. 1 Department of Pharmacology, Guangdong Medical College, Zhanjiang, China, 2 Institute of Respiratory Disease, Guangdong Medical College, Zhanjiang, China.


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Garlick PJ. Assessment of the safety of glutamine and other amino acids. *J Nutr* 2001;131:2556S-61S.
