



DaVinci®

*Laboratories
of Vermont*

Innovative by nature

MULTIPHASE DETOX™*

and ORGANIC BROWN
RICE PROTEIN:

A Protocol For Your
Patient's Health



Dear Practitioner,

The word “toxins” just sounds scary. And yet, our bodies ingest countless different ones every time we breathe in, eat processed foods, or even shake the hand of a smoker. Not all toxins build up with vengeance, but maintaining a healthy detoxification process, and consequently, a clean mind and body, is a critical part of maintaining overall health.

Help your patients start down the path to feeling truly clean with DaVinci Labs’ detoxification protocol: Organic Brown Rice Protein and MultiPhase Detox™* Capsules, two products to support total wellness.*

We can identify thousands of factors that contribute to toxin build up and general liver wellness. From a serious love for milk thistle to a hatred of drinking water, your patients’ liver (and therefore, whole body) detoxification abilities are dependent on every day choices and environments.

While an abundance of extreme diet options exist for quick cleansing, we believe that supporting overall wellness, especially that pertaining to the liver, is the most effective detoxification protocol of all.

*The formula of Organic Brown Rice Protein eliminates the unnatural products, dairy, sugars and soy found in many proteins on the market. It is designed to support normal detoxification and liver health with a full amino acid profile.**

MultiPhase Detox™* Capsules are an added bonus. Amino acids and antioxidants combine to create a formula that gives clean a whole new mean.*

Help your patients see the light at the end of the toxin tunnel.

This world is full of things that harm. It’s time to give them access to the exact opposite.

To your practice and your patients’ good health,

*Dom Orlandi
President
DaVinci® Laboratories of Vermont*

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



Introduction:

The abundance of toxic factors in our environments and our biological individuality make it nearly impossible to create an accurate statistical representation of toxin pervasiveness in a given population. The Center For Disease Control and Prevention has attempted to gain some knowledge about United States’ citizens’ toxin profiles, but there is little to conclude save the very fact that toxin build-up from environmental chemicals does occur.

The CDC notes that “The term environmental chemical refers to a chemical compound or chemical element present in air, water, food, soil, dust, or other environmental media (e.g., consumer products).” (**Centers for Disease Control and Prevention, 2009**)

This definition indicates what most of us already know: shampoos, soaps, normal flame retardants (like those used on airplanes), cigarettes, artificial flavorings and countless more consumer products might make significant contributions to our toxin profiles.

To be clear, our toxin profiles don’t always indicate illness or disease. But a clean picture of health does involve internal cleanliness and the body’s ability to effectively metabolize xenobiotics, a process which DaVinci®’s protocol is designed to support.*

This white paper will address:

- Detoxification mechanisms (xenobiotic metabolism Phases I, II and III)
- Current attitudes about detoxification and misperceptions
- How nutritional factors in Organic Brown Rice Protein support normal detoxification* (If patients prefer, DaVinci’s Right Whey Protein can be substituted for similar support)
- How nutritional factors in MultiPhase Detox™* Capsules support normal detoxification*

Organic Brown Rice Protein and MultiPhase Detox™* together support liver health and the normal detoxification process in a comprehensive manner designed to address whole-body wellness.*

This protocol is recommended for patients who:

- are searching for support for normal toxin cleansing*
- are continuously exposed to chemical solvents (auto mechanics, manicurists, etc.)
- are seeking support for normal energy levels*
- are on a weight management program*
- are undergoing sauna therapy*
- have chemical or heavy metal sensitivities*

Learn what you need to know to decide if this protocol includes the right formulas to support your patients’ quest for a clean life, giving them a new outlook on health.*

It’s Just a Phase: Explaining Detoxification Phases I, II and III:

Xenobiotic metabolism is not a simple process. Our changing bodies must contend with changing environments and the limitless number of xenobiotics we may be exposed to over time. Further, our bodies must separate harmful xenobiotics from normal chemical mixtures involved in our normal metabolic process. How does the human body accomplish this complex separation and elimination to maintain health?

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



Phase I of liver detoxification is otherwise called oxidation, activation or modification. All are true. The liver excretes the group of substances known as cytochrome P-450, low-specificity enzymes that convert toxic molecules to more water-soluble forms through incorporation of an oxygen atom (with an NADH cofactor) into the non-active hydrocarbons. Bio-transformation, as this process is called, allows toxin excretion, either through the kidneys or the colon. Nutrients required for healthy Phase I reactions include B vitamins, folic acid, glutathione, carotenoids and vitamins C and E.

Perhaps contrary to the overall mission of the body's normal detoxification process, the oxidation that occurs in Phase I produces a high quantity of free radicals. Sometimes, this process is even the cause of the toxin's harmful nature. (Liska, 1998, p. 189-191) Phase II is a necessary follow-up designed to deal with this onslaught of oxidative stress.

Phase II of liver detoxification involves the conjugation pathways. Conjugation refers to addition, wherein the liver adds one of its powerful, charged antioxidants to the now activated xenobiotic metabolites to effectively neutralize the free radical.*

"The major conjugation reactions include glucuronidation, amino acid conjugation, sulfation, glutathione conjugation" (making use of glutathione S-transferase), "acetylation and methylation," which require sulfur-containing amino acids glutamine, glycine, taurine and cysteine to function properly. (Diamond, 2001, p. 290) Selenium is also involved in the conjugation process.

Because Phase I doesn't affect toxins like heavy metals, Phase II must step in to increase the toxic molecules' water solubility through attaching a water-soluble substance to each fat-soluble substance for subsequent healthy excretion via either bile or urine. An effective Phase II detoxification process is a critical component of a healthy body.

Phase III is a relatively new discovery referred to as "antiporter activity." The antiporter itself is like a pump that moves xenobiotic metabolites out of a cell, decreasing the xenobiotic's concentration. (Diamond, 2001, p. 290) Antiporter activity appears to co-regulate the Phase I enzyme, Cyp3A4, indicating that the antiporter may support healthy detoxification processes.

In the past, Phase III has often been called the elimination phase, wherein xenobiotics actually exit the body. Therefore, colon health, digestion and overall intestinal wellbeing are intricately involved in the health of the detoxification process.

Enter Healthy Lifestyle Alternatives

Recommendations from individual doctors are one of the main causes of changes in behaviors. Even with knowledge of potential issues, many patients will seek quick fixes, rather than a lifestyle change, without a doctor's guiding advice.

It's difficult to quantify the exact amount Americans spend on detoxification diets and fad protocols because, while we have statistics about weight loss spending, the two are not mutually exclusive or inclusive. What we do know is that language and the pressure of weight loss are powerful advertising items, and that when a detox protocol is associated with a diet or a fast flush, hundred-dollar price tags abound.

Encouraging alternative liver and detoxification support can be especially difficult because of the mass market for detoxification protocols strictly associated with weight loss, and the perception of weight loss as a cosmetic choice. People are less likely to seek out a health care practitioner for advice, instead turning to a company that has built trust using a clever advertising campaign.

But your patients should have the option to view detoxification as a part of their bodily processes that contributes to health (perhaps the most important of all), and creating this option is largely your professional responsibility.

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



The Difference Your Patients Are Seeking

Despite the fact that prescription drug use and the allure of quick fixes continue to rise, there is a growing movement toward natural, alternative and non-prescription solutions for every day health, including detoxification.

The National Center for Health Statistics confirms that in 2007, almost 4 out of 10 adults (38.3%) had used some type of complementary and alternative medicine (CAM) in the past 12 months.

The 2007 National Health Interview Survey (NHIS) alerts us to the fact that Americans spent \$33.9 billion out of pocket on visits and purchases of CAM products, classes, and materials. (Barnes et al., 2008.)

Organic Brown Rice Protein and MultiPhase Detox™* Capsules can both be integral parts of an alternative regimen that includes a healthy diet and proper bodily awareness.* Used as a protocol to support healthy liver enzymatic functions and proper elimination (as well as weight management and overall wellness) these products are greatly preferable to fast flush diet fads that have no supportive relationship to the health of the actual detoxification process, which is ongoing.*

How Nutritional Factors in Organic Brown Rice Protein Support Detoxification*:

Organic Brown Rice Protein might sound like something to support only those patients especially concerned with muscle metabolism, but names can be deceiving. We've included this protein complex in our detoxification protocol for many reasons, perhaps the most remarkable being its complete amino acid profile, which provides methyl groups and antioxidants to support the total proper detoxification process of the body.*

Organic foods and supplements are also ideal for patients interested in a complete detoxification protocol because of the products' inherent purity; consuming them does not add toxins in the course of attempting to support their elimination.*

Amino Acids

The complete amino acid profile included in this protein features:

- Valine, leucine and isoleucine
- Histidine
- Threonine
- Tryptophan
- Lysine
- Arginine
- Glutamic Acid
- Glycine
- Proline
- Serine
- Tyrosine
- Alanine
- Phenylalanine

Brown Rice Protein is also known for its methionine and cysteine content (metabolism of which leads to the production of cysteine). These two amino acids (along with others in the formula) are especially supportive of Phase II detoxification, which we have established requires glucuronidation, amino acid conjugation, sulfation, glutathione conjugation, acetylation and methylation.*

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



As a sulfur-containing amino acid, cysteine supports several of these processes, including the body's ability to produce intracellular GSH. Glutathione itself is actually a tri-peptide formed from the biosynthesis of **cysteine, glycine and glutamic acid**—all of which are included in Organic Brown Rice Protein. Glutathione's antioxidant activity is actually attributed to its cysteine content.

Cysteine and GSH are especially instrumental in supporting proper heavy metal detoxification, as "(toxic) metals also inhibit antioxidative enzymes and deplete intracellular glutathione... Metals also have the potential to disrupt the metabolism and biological activities of many proteins due to their high affinity for free sulfhydryl groups." (Quig, 1998, p. 262-270)

Despite cysteine's obvious supportive qualities in all types of detoxification (specifically heavy metal), certain studies on the amino acid's relationship to the blood-brain barrier have raised concern in the past. *

"Experimental evidence from animal studies clearly indicates supplementation of cysteine at high doses can actually increase the transport of Hg into the brain," via the large neutral amino acid (LNAA) transport system, a leucine-preferring system often referred to as "L." (Quig, 1998, p. 262-270)

Because the L system is the mechanism for transport, and l-leucine "inhibits transport of the MeHg-cysteine complex across the blood-brain barrier," we can infer that cysteine exhibits more of its proper detoxification supportive qualities when combined with other amino acids, hence the importance of a complete profile.*

Therefore, "it seems prudent to provide small amounts of cysteine in conjunction with sufficient quantities of leucine and the other amino acids which compete for the L-amino acid transport system, including valine, isoleucine, phenylalanine, tyrosine and tryptophan." (Quig, 1998, p. 262-270)

Protein

Your patients likely will not associate rice with protein, because rice is so commonly known as a starch. DaVinci's brown rice protein has been separated from the natural carbohydrates in a hexane-free, enzymatic filtration process. Low temperature processing preserves the rice's unique nutritional profile.

The support from protein in Organic Brown Rice Protein is largely due to its complete amino acid profile, and what each amino acid means to the body's function (specifically, that of the liver). But it also comes from the fact that clean, pure protein is a necessary addition to any detoxification protocol, as diets tend to regulate the type of protein patients will consume.

Acacia Fiber

The inclusion of acacia fiber in Organic Brown Rice Protein significantly contributes to the formula's detoxification supportive properties.

"Natural Fiber, such as found in fruit, has been shown to have a detoxifying effect in at least some applications where the toxin binds with bile. Because the body recycles most of the bile during the normal digestive process, these toxins can remain in the body for a long time. Fiber can act as a bile-sequestering agent, binding up some of the bile, which is then excreted, as opposed to being recycled in the normal manner." (Mankovitz, 2008, p. 72)

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



Nondairy Probiotics

The variety of bacterial strains in Organic Brown Rice Protein adds to its comprehensive nature. Beneficial bacteria support proper digestion, intestinal and colon health, thereby supporting the normal function of the detoxification process.* Such microbial agents are necessary to the body's ability to maintain a healthy digestive system and to the repopulation of the digestive tract to achieve bacterial balance during and after the action of any serious cleansing regimen.*

How Nutritional Factors in MultiPhase Detox™* Capsules Support Detoxification:

MultiPhase Detox™* Capsules, as the name indicates, are designed to support the normal, healthy function of all three phases of detoxification.* Every nutrient in MultiPhase is important to its supportive nature.

The formula's goals include:

- Providing advanced, balanced support for multiple phases of detoxification*
- Supporting kidney, liver and colon health and function*
- Supporting proper detoxification of solvents, metabolic wastes, micro-organisms, environmental toxins and drugs*

Chlorella-Cracked Cell Powder

Because chlorella is an algae, it's important to use only the cracked cell type, as nutrients will be available through the hard, cellulose wall only in this manner. Chlorella (dried) is comprised of approximately 45 to 55 percent protein. It includes B complex vitamins, carotenoids and vitamin C, features 19 amino acids and has an affinity for binding with heavy metals and toxins that makes it an integral part of maintaining a healthy detoxification process.* Specifically, chlorella binds with mercury, lead and cadmium, making it one of the most popular detox-supportive supplements available.*

Supplement Facts

Amount Per Serving

Serving Size One Scoop (36 g)

Calories	140
Calories from Fat	10
Total Fat	1 g
Total Carbohydrates	12 g
Sugars	4 g
Dietary Fiber	5 g
Protein	22 g
Calcium	108 mg
Iron	4 mg
Sodium	15 mg
Organic Brown Rice Protein	28,840 mg
Organic Acacia Fiber	3,862.5 mg
Organic Stevia Leaf	120 mg
Proprietary Nondairy Probiotic Blend	100 mg
Containing: Lactibacillus acidophilus, Lactobacillus rhamnosus, Lactobacillus casei, Bifidobacterium bifidum, Bifidobacterium longum, Streptococcus thermophilus (in organic inulin)	

Other Ingredients: organic pure vanilla sugar powder.

Suggested Use: As a dietary supplement, mix one scoop (36 g) daily in 8-10 oz of cold water or juice, or as directed by your healthcare practitioner.

Warning: If pregnant or nursing, consult your healthcare practitioner before taking this product.

WARNING: This product contains lead, a chemical known to the State of California to cause birth defects and other reproductive harm.

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

Bacillus Coagulans

The five billion colony-forming units of this beneficial bacteria in a serving of MultiPhase Detox™ Capsules support intestinal wellness and colon health to allow a healthy elimination process, an integral part of normal detoxification.* Beneficial bacteria are a core piece of supporting the body's ability to maintain microbial balance in the gut.* During and following a detoxification program, beneficial bacteria supplements can also support healthy bacterial repopulation and distribution in the digestive tract.*

DMG

This amino acid derivative is, at its simplest, glycine with two methyl groups to support all methylation processes.* But DMG is much more than that; it offers complex support for proper detoxification processes.*

Writes Dr. Roger Kendall:

"DMG supports transmethylation processes through its ability to give up its methyl groups to help produce Sulfur-adenosylmethionine (SAMe). SAMe is the principle methyl donor in the body and transmethylation involves the reaction whereby a methyl group (CH3) is transferred from SAMe to another molecule. Many hormones, neurotransmitters, enzymes, nucleic acids (DNA, RNA) and antibodies depend upon the transfer of methyl groups to complete their synthesis. The body detoxifies potentially damaging chemicals and regulates a number of cellular processes through SAMe.

DMG is a key player in the intricate network of methylation and transmethylation in the human body. The major dietary sources of active methyl groups in the human diet are in the form of choline, creatine or methionine...The metabolic role of supplemental DMG takes on profound importance as a (supportive) provider for methylation....These reactions include methylations of proteins, of nucleic acids and biogenic amines, as well as the detoxification of foreign substances." (Kendall, 2000, p. 2-3)

L-Glycine

As mentioned, glycine is an important part of glutathione synthesis and a powerful component for supporting the body's ability to reduce oxidative stress.* The liver combines glycine with the common food additive toxin known as benzoic acid to form hippuric acid, which can be excreted. Glycine also conjugates with other toxins to create water solubility and support elimination.

L-Glutamine

One of the 20 amino acids in the standard genetic code, l-glutamine has long been used as support for muscle building and healthy protein synthesis.* Glutamine produces ammonium, thereby supporting proper acid balance in the kidneys. It also acts as a harmless ammonia transporter, allowing for its removal from the body. Glutamine is especially important to the detoxification process because it supports cellular energy, a key factor in the body's ability to neutralize and remove free radicals.*

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

L-Taurine

Taurine is usually referred to as a sulfur-containing amino acid, but is actually a derivative of cysteine and a sulfonic acid. Generally, the body's taurine requirements increase in times of oxidative stress. For this reason, it is a necessary component of any successful protocol designed to support proper comprehensive detoxification.*

In the detoxification process, the liver uses taurine as a source of sulfur to support the healthy function of both the sulfation pathway (for toxin neutralization) and the Phase II conjugation processes.* Further, taurine acts as a component of bile, which is necessary to supporting healthy detoxification, as toxic materials are often secreted into the bile for transport and elimination.* It also supports the normal function of the liver through its ability to support proper lipid metabolism.*

Curcumin C3 Complex® Curcuma longa root extract (yielding curcuminoids)

Curcuminoids are principal components of turmeric, a popular spice and home remedy to support liver health and serious free radical neutralization.* In antioxidant supportive actions, curcumin has been compared to vitamins C and E, with indications that it even more effectively supports the body's ability to neutralize free radicals than do these popular choices. Further, curcumin supports bile production, thereby supporting the elimination process.*

The patented complex included in MultiPhase Detox™* Capsules includes three curcuminoids: Curcumin, Demethoxycurcumin and Bisdemethoxycurcumin. "Curcumin C3 Complex® is a safe and clinically tested material that is certified by NSF International for potency and specification compliance." ("Curcuminoids", n.d.)

Stinging Nettle

As a diuretic, it is thought that nettle, an herbaceous plant, supports kidney health and urine production.* It is also renowned for its potential to support proper detoxification of the lungs, blood, stomach and intestines.* This ability is sometimes attributed to nettle's diuretic effects and sometimes to its support of liver enzyme and cytokine levels.* Further, nettle is a flavonoid and antioxidant source that provides powerful free radical scavenging support.*

Milk Thistle (Silymarin)

Arguably the most well-known detoxification support supplement, milk thistle has long been used in association with liver health. Its active constituent, silymarin, is a compound formed by three milk thistle flavonoids that works to directly support liver health. During Phase I of the detoxification process, silymarin supports the body's ability to limit lipid peroxidation of hepatocytes. Through addressing both protein synthesis and the permeability and flexibility of cell membranes, silymarin supports not only proper detoxification, but also the healing and regeneration of hepatocytes.*

Silymarin also works to support metabolism and the body's ability to maintain healthy levels of the master antioxidant, glutathione.*

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



Siliphos® Silybin Phytosome®

This patented ingredient is a highly bioavailable version of milk thistle's active constituent, silymarin. Silymarin actually includes at least seven flavolignans and one flavonoid. The two most abundant of its constituents are silybin A and silybin B, collectively known as silybin. Siliphos® is so named because it is a combination of silybin and the phospholipid phosphatidylcholine, rendering more bioavailable than regular silybin.

Uva Ursi Leaf Extract

This natural extract is also known as bearberry, and is most commonly known for its kidney supportive properties.* The main purpose of Uva Ursi in complementary and alternative medicine use involves its cleansing properties, which come from one specific constituent, arbutin. Arbutin releases phytochemicals into the urine, thereby supporting kidney and bladder cleansing processes.* Uva Ursi leaf also contains quercetin, which supports detoxification by acting as a protectant for those capillaries that exist as part of the kidney's filtration system.*

Leucoselect® Grape Seed Phytosome®

A patented, low molecular weight grape seed extract combined with phosphatidylcholine, Leucoselect® supports cardiovascular health and free radical neutralization in a highly bioavailable complex.* Multiple clinical trials have assessed Leucoselect's® supportive properties. In one study, the product showed the body's ability to improve total antioxidant capacity of plasma in healthy volunteers:

Leucoselect® Phytosome® was administered for five days to 20 young subjects in a single-blind randomized placebo-controlled crossover trial. The product induced a significant increase of serum total antioxidant capacity assessed on day 1 and day 5. After a washout period of at least two weeks, the treatment was repeated with similar results. (**"Indena", n.d.**)

Alpha-Lipoic Acid

As a powerful antioxidant known for supporting neurological health, alpha-lipoic acid is a unique nutrient because it also acts like a vitamin B substance.* "It is a potent antioxidant in both fat- and water-soluble mediums, which is an unusual property. Its antioxidant abilities extend to both the oxidized and the reduced form. This is like having a football player who can play offense and defense equally well. Lipoic acid turns out to be a vitamin-like 'universal antioxidant.' It helps other antioxidants, like vitamin C, vitamin E, coenzyme Q10 and glutathione to 'recharge' themselves to the active forms."* (**Bennett, Barrie, & Faye, 2001**)

Burdock Root Extract

Burdock root provides detoxification support through acting as a diuretic, supporting urine production and elimination of toxins.* One of its unique actions includes provision of circulatory process support, specifically that of circulation to the skin, which thereby supports detoxification of the epidermal tissues.* Burdock root also contains inulin, a carbohydrate known to support liver strength, and acts as an antioxidant to support free radical neutralization and elimination.*

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



N-Acetyl L-Cysteine

The acetylated form of the amino acid cysteine, n-acetyl l-cysteine works in much the same fashion to support GSH production and the health of the detoxification process. Through supporting glucoronidation, amino acid conjugation, sulfation, glutathione conjugation, acetylation and methylation, n-acetyl l-cysteine offers comprehensive and balanced multi-phase detoxification support.*

Magnesium

This ubiquitous mineral has innumerable functions in the body.* It is necessary for over 300 enzymatic reactions. It also supports the body's ability to activate a pump in cell membranes that promotes cleansing and mineral exchange (sodium out and potassium in). Magnesium also supports cellular energy and the body's ability to neutralize free radicals.* Perhaps most importantly, magnesium is crucially supportive of neurological health.*

Selenium

Glutathione production in the body depends on many nutritional factors, among them selenium, an element which supports the formation of the enzyme glutathione peroxidase.* Selenium is also known to support thyroid health by supporting thyroid enzymes and enzymatic conversion.* Further, selenium binds to mercury to support proper heavy metal detoxification.*

A Protocol For Health

Separately, MultiPhase Detox™* Capsules and Organic Brown Rice Protein are stars of the DaVinci® line in their own rights. Together, they make up our new support protocol for proper detoxification to propel your patients to a healthy lifestyle.*

Rather than offering a one-time diet cleanse or flush program, DaVinci® Labs offers two formulas designed to support overall liver health, normal detoxification processes and the body's antioxidant defense system.* When not blinded by the haze of one-time flush programs' typical fading results, your patients will see the path to health clearly: cleanliness is a lifestyle, and their liver is their friend.

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



About DaVinci Laboratories

About DaVinci® Laboratories

For 40 years, DaVinci® Laboratories has led the industry with the formulation of innovative, nutritional supplements exclusively for health care professionals. DaVinci® Laboratories, a division of FoodScience® Corporation (FSC), has been known as a company that sets new standards of quality and safety in products for humans and companion animals.

FoodScience® Corporation employs more than 200 dedicated individuals who share a mission is to provide veterinarians and physicians with powerful products backed by science to complement traditional therapies. We are committed to using pure and highly researched ingredients in products that are safe, effective, and developed to meet the diverse needs of our unique customer base.

Safety and Quality

DaVinci® Laboratories holds a current Good Manufacturing Practices (cGMP) certification from the Natural Products Association. They review all elements of the manufacturing process to ensure that our products meet their established specifications for quality. These include identity, purity, potency, composition, and contaminants. In addition, our flexible facilities allow for custom formulations and private labeling for customers who are interested in marketing their own brand of nutritional products.

DaVinci® Research

DaVinci® and FSC offer the largest number of original formulations ever developed by a single company, including five U.S. patents for N, N-Dimethylglycine (DMG) in the areas of immune response and joint support, as well as our patented Glucosamine, MSM, and Perna formula using GlycOmega™ brand *Perna canaliculus* for joint and connective tissue support.

DaVinci® Specialty Formulations

Ongoing research and development at DaVinci® Laboratories has resulted in the most exclusive line of specialty products, some of which include: pure N,N-Dimethylglycine (Gluconic® DMG); the most complete and powerful multiple vitamin/mineral formulas available (Daily Best™, Kid's Mighty Vites™, Omni™, Omni™ Jr, Spectra™, Spectra™ Man, Spectra™ Senior, Spectra™ Woman, Spectra™ Multi Age, Ultimate Prenatal™); and unique glycosaminoglycan products (Cartilage+™, Disc-Discovery®, Perna® and Perna® Plus). DaVinci® was also the first nutritional supplement company in the United States to introduce Evening Primrose Oil (Gamma-Lin™) to health practitioners in 1980 as well as the first company to offer doctors an efficient and accurate protocol for evaluating the quality of Oil of Evening Primrose.

DaVinci® supports research at the following institutions: University of Southern California Medical School, Los Angeles; Medical University of South Carolina, Charleston; Institute For Child Behavior Research, San Diego; San Diego State University; Northern Kentucky University, Highland Heights; Florida Medical School, Tampa; University of Bridgeport, Bridgeport, Connecticut; Clemson University College of Sciences, Clemson, South Carolina.

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