

LEAKY GUT PACKAGE
ULTRA-STRENGTH

GlycoLife

SCIENCES

REVOLUTIONIZE YOUR HEALTH

GlycoLife Sciences is a nutraceutical company offering **advanced solutions for complex health challenges.**

We make available the world's highest-quality, highest-potency nutraceuticals and formulas. At GlycoLife Sciences we are paving the way to wellness by offering specialty nutraceuticals that raise the status quo for health and wellness.



•90 DAY• LEAKY GUT PACKAGE

Package Objectives

Address microbial imbalances

(bacterial, parasitic, fungal, viral, mycoplasma)

Repair gut lining and increase absorption of nutrients

Regulate inflammatory processes

Optimize immune function

Enhance detoxification pathways

(Glutathione, NRF2, etc.)

Address hormonal imbalances

Support liver detoxification and regeneration

Enhance cellular-communication pathways

Provide cellular nourishment/nutrient restoration

Provide antioxidant support

Products Included

1. Immune-Optimize Ultra-Strength (3)
2. Detox-Optimize Ultra-Strength (3)
3. Endo-Optimize Ultra-Strength (3)
4. Oliver™ Powder
5. MacaXtra™ Powder
6. Turmacin® Organic Powder
7. Camuninas® Powder
8. GarliSure™
9. NAMMEX Lion's Mane 8:1 Powder
10. Pectasol-C® (454 grams)
11. Lanconone® (2)
12. NutraLiver™ (2)
13. NAMMEX Cordyceps 10:1 Powder
14. BlenderBottle



THE PROTOCOL

(Follow for 90 Days)

Formulas:

Take together twice per day away from food.

Immune-Optimize Ultra-Strength (2 capsules 2x per day)

Detox-Optimize Ultra-Strength (2 capsules 2x per day)

Endo-Optimize Ultra-Strength (2 capsules 2x per day)

Booster Shake:

Mix together in BlenderBottle once per day and drink away from food and preferably away from other supplements.

Mix together 1/4 teaspoon of each product.

Oliver™ Powder

MacaXtra™ Powder

Turmacin® Organic Powder

Camuninas® Powder

NAMMEX Lion's Mane 8:1 Powder

NAMMEX Cordyceps 10:1 Powder

Pectasol-C® Powder (1 scoop)

Boosters:

Take together once per day away from food.

May be taken with formulas if desired.

Lanconone® (2 capsules)

NutraLiver™ (2 capsules)

GarliSure™ (1 capsule)*

**GarliSure™ is most effective for microbial support when taken on an empty stomach.*

For lectin-binding support GarliSure™ can be taken with meals. If GarliSure™ causes an upset stomach it may be removed from the protocol.



MEGA-STRENGTH NUTRACEUTICALS

We are the world's first company to introduce mega-strength nutraceuticals. Our goal in making available these powerful nutraceuticals is to provide advanced solutions for advanced health challenges.

ULTRA-STRENGTH FORMULAS

Our revolutionary formulas are available in both a regular-strength and an ultra-strength option. Our ultra-strength formulas are approximately 5x stronger than the regular-strength formulas and are ideal for more advanced health challenges.

THE GLYCOLIFE SCIENCES DIFFERENCE



- **100% BRANDED INGREDIENTS**

We don't compromise on the quality of our ingredients so that you don't have to compromise on the quality of your health. We are the only nutraceutical company in the world utilizing 100% branded ingredients.

- **100% NATURAL PRODUCTS**

Everything we sell is all natural with no fillers, additives, or synthetic ingredients. We bring together the world's most researched, respected, and effective nutraceuticals and strategically combine them for increased bioavailability, synergy, and efficacy.

- **100% PURE PRODUCTS**

All of our products are 100% pure and contain no binders, fillers, excipients, dyes, or unknown substances. Our products are produced in a manner to obtain the purest form of the nutrients and ensure maximum bioavailability. Fewer than 3% of the products on the market meet these qualifications.

- **MEGA-STRENGTH NUTRACEUTICALS**

We are the world's first company to introduce mega-strength nutraceuticals. Our goal in making available these powerful nutraceuticals is to provide advanced solutions for advanced health challenges.

- **ULTRA-STRENGTH AND REGULAR-STRENGTH FORMULAS**

Our revolutionary formulas are available in both a regular-strength and an ultra-strength option. Our ultra-strength formulas are approximately 5x stronger than the regular-strength formulas and are ideal for more advanced health challenges.

- **CUTTING-EDGE SCIENCE**

We utilize research in the field of glycobiology to provide solutions for unsolved health challenges. We strategically combine polysaccharide extracts to enhance cell-cell communication and optimize immune function.

- **ALLERGEN-FREE AND VEGAN FORMULAS**

All of our revolutionary formulas are allergen-free and vegan-friendly.

- **BEST IN THE U.S. GUARANTEE**

We guarantee that our nutraceutical formulas are the best in the entire country. If you can find a nutraceutical formula better than what we offer we will happily buy it for you.

- **HOPE FOR A HEALTHY TOMORROW CAMPAIGN**

For every \$1000 in sales we give away \$100 worth of our revolutionary products.

IMMUNE-OPTIMIZE ULTRA-STRENGTH

Immune-Optimize is an advanced formula designed to support immune system function.* Immune-Optimize is available in both a regular-strength and ultra-strength option. The ultra-strength formula is approximately 5x stronger than the regular formula.

INGREDIENTS:

BGF-Immune®

BGF-Immune®, a high purity (85%), proprietary 1.3 Beta-Glucan offered by NutriScience Innovations, is developed via fermentation, and offers a superior form of Beta-Glucan. BGF-Immune® is produced via a solvent-free production process, and is Kosher and Halal.

HumicSure™

Branded blend of humic and fulvic acids. Humic acid is a family of related organic acids, commonly found in soil, peat, and in lake and ocean water, as well as soil-grown foods. Humic and fulvic acids are considered the most chemically active compounds in soil. Biologically active humic substance containing more than 70 micronutrients in biologically uptakable form. A combination of Humic and Fulvic is believed to be the most powerful organic poly-electrolyte antioxidant and free-radical scavenger which aids to maintain a balanced cell life. Humic Acid is being used effectively in preventing viral infections because it interferes with a virus' ability to attach to a host cell, penetrate the host cell, and reproduce itself. Humic acid also assists in sustaining and reinforcing the body's immune system.

BiAloe®

BiAloe® is an organic freeze-dried inner leaf aloe vera powder. Aloe vera is a popular medicinal plant that has been used for thousands of years. Aloe vera's use can be traced back 6,000 years to early Egypt, where the plant was depicted on stone carvings. Known as the "plant of immortality," aloe was presented as a funeral gift to pharaohs. BiAloe® is a 200x concentrate that contains the most bio- available, certified-organic aloe with the highest amount of acemannan made today. BiAloe® is aloin free and does not act as a harsh laxative, unlike many whole leaf aloe products.

AP-Bio™

AP-Bio™ is a clinically proven standardized extract derived from the plant *Andrographis paniculata* Nees commonly known as Kalmegh or King of bitters, widely used in Ayurveda. The beneficial effects of *Andrographis* in supporting immune health have been validated in several clinical trials. AP-Bio™ supports a normal, healthy respiratory tract and immune system. In a double blind, placebo controlled clinical trial on 220 subjects, the individuals treated with AP-Bio™ showed 52.7% improvement over the placebo group in overall symptom score. All bioactive compounds of AP-Bio™ are tested individually for efficacy and then uniquely blended together. This innovative formula of AP-Bio™ was tested in pre-clinical and human studies to ensure its efficacy supporting immune health. Every batch is tested in accordance with the international regulations and pharmacopoeias to guarantee the control over heavy metals, pesticides, aflatoxins and microbial count.

MaitakeGold 404®

MaitakeGold 404® is a clinically tested, immune modulating extract of Maitake (*Grifola frondosa*) mushroom fruit body. Natural and self-affirmed GRAS, MaitakeGold 404® is a superior immune support ingredient that is appropriate for daily use 365 days a year. Maitake mushroom (commonly known as 'hen of the woods' or 'dancing

mushroom') has been used traditionally for centuries as both a culinary and medicinal mushroom. Prior to modern cultivation techniques in controlled facilities, it was gathered in the wild from the base of oak, beech, and elm trees where it grows naturally on roots. In ancient times, because it was such a treasured food and healing source, when people discovered Maitake fruit bodies during their forays along mountainsides where it grew, they would purportedly dance for joy.

MaitakeGold 404® is a trademark of Tradeworks Group, Inc.

BGF-Immune® is a registered trademark of NutriScience Innovations

AP-Bio™ is a registered trademark of Natural Remedies PVT. LTD.

HumicSure™ is a registered trademark of GCI Nutrients

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DETOX-OPTIMIZE ULTRA-STRENGTH

Detox-Optimize is an advanced formula designed to support healthy detoxification pathways. *Detox-Optimize is available in both a regular-strength and ultra-strength option. The ultra-strength formula is approximately 5x stronger than the regular formula.

INGREDIENTS:

Siliphos®

Siliphos® is a patented botanical derivative from *Silybum marianum* (L.) Gaertn. Commonly referred to as milk thistle, the plant has been used for centuries to address liver health. Siliphos® is an Indena Phytosome ingredient in which silybin, one of the main bioactive constituents in milk thistle, is associated with sunflower phospholipids to significantly improve bioavailability. Siliphos® offers liver-protective benefits and helps maintain normal levels of glutathione.* SILIPHOS® is standardized to contain: $\geq 29.7\%$ to $\leq 36.3\%$ of silybin by HPLC.

Greenselect® Phytosome

Greenselect® Phytosome is a proprietary, caffeine free, catechin extract from green tea formulated with Phytosome technology. Green tea consumption has been traditionally linked to lower body fat. A number of clinical studies have shown green tea to promote energy expenditure and caloric consumption by increasing thermogenesis (the production of body heat derived from fat oxidation). Greenselect® Phytosome is double standardized in polyphenols and epigallocatechin 3-O-gallate (EGCG):

Alpha-3 CMP™

Alpha-3 Condensed Marine Phytoplankton is a breakthrough product that has harnessed Earth's original food source and made it bio-available for the human cells. Marine phytoplankton's nutrition is so dense it not only sustains life, but provides optimal regeneration and energy to every cell in our body. Alpha-3 CMP Marine Phytoplankton is the only product that contains wild blends of hundreds of plankton species, and whose silica cell wall has been naturally and gently ruptured without the use of any heat, freezing, or chemicals to allow the essence of the phytoplankton to become bio-available for human consumption. Growing and harvesting are part of a patented process which mimics nature's way of providing these powerful nutrients.

FulvicSure™

Branded blend of fulvic and humic acids. Humic and fulvic acids are considered the most chemically active compounds in soil. Fulvic acids are humic acids of lower molecular weight and higher oxygen content. Fulvic acid serves as an indispensable vehicle for carrying vitamins and other nutrients to the proper places in our bodies. Fulvic acid contains over 60 minerals and trace elements and is essential for cellular health. These humic substances act as powerful electrolytes and antioxidants. They are also natural chelators that bind and pull out toxic substances such as pesticides, herbicides, bad microbes and heavy metals. Their colloidal nature allows them to help the cells more efficiently respire, hydrate, absorb nutrients such as amino acids and eliminate wastes more effectively. Fulvic acid is rapidly being recognized as one of the key elements in many outstanding health and scientific breakthroughs of the 21st century. More and more scientists and doctors throughout the world are discovering fulvic acid, and are recognizing its extraordinary potential. Interest in the medical community has been escalating rapidly. A combination of Humic and Fulvic is believed to be the most powerful organic poly-electrolyte antioxidant and free-radical scavenger which aids to maintain a balanced cell life.

Camuninas®

Camuninas® is a registered natural ingredient obtained from the Amazonian fruit Camu Camu by a controlled and

patented process by which the functional and nutritional components are enhanced and preserved. This specialized production process preserves the quantity and the quality of the phytochemical components of Camuninas®. Camuninas® has higher vitamin C content than any other natural product in addition to the presence of polyphenols. This characteristic gives Camuninas® a high antioxidant potential and thus beneficial properties like anti-aging due to its complete multifunctional effects. The unique combination of the high vitamin c and polyphenols content rates Camuninas® among the most potent natural antioxidants. Camuninas a proprietary camu-camu fruit concentrate that is rich in naturally occurring vitamin C. The camu-camu used for Camuninas® is wild-crafted from the high altitude regions of Peru by local Indian tribes collecting ripe fruits of Myrciaria dubia. Through our clinical research we have observed a 25% higher absorption of Camuninas® vitamin C compared to the synthetic vitamin C in a period of 24 hours.

Siliphos® and Greenselect® are trademarks of Indena S.p.A., Italy

Camuninas® is a trademark of San Juan de la Amazonia

FulvicSure™ is a registered trademark of GCI Nutrients

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ENDO-OPTIMIZE ULTRA-STRENGTH

Endo-Optimize is an advanced formula designed to support normal endocrine function and help maintain healthy hormone levels.* Endo-Optimize is available in both a regular-strength and ultra-strength option. The ultra-strength formula is approximately 5x stronger than the regular formula.

INGREDIENTS:

BiAloe®

BiAloe® is an organic freeze-dried inner leaf aloe vera powder. Aloe vera is a popular medicinal plant that has been used for thousands of years. Aloe vera's use can be traced back 6,000 years to early Egypt, where the plant was depicted on stone carvings. Known as the "plant of immortality," aloe was presented as a funeral gift to pharaohs. BiAloe® is a 200x concentrate that contains the most bio-available, certified-organic aloe with the highest amount of acemannan made today. BiAloe® is aloe free and does not act as a harsh laxative, unlike many whole leaf aloe products.

MacaXtra™

MacaXtra™ is a premium quality concentrated organic Maca root powder. MacaXtra™ is standardized to a minimum of 1% Glucosinolates. The maca plant, known scientifically as *Lepidium meyenii*, is sometimes referred to as Peruvian ginseng. Maca is a medicinal plant that mainly grows high up in the mountains of Peru in harsh conditions. Maca root powder is very nutritious, and is a great source of several important vitamins and minerals. Maca root has traditionally been used to enhance fertility and sex drive.

NAMMEX Cordyceps 10:1

Nammex Organic Cordyceps Mushroom Extract 10:1. Wild *Ophiocordyceps sinensis* is a rare and expensive Chinese herb. It consists of a caterpillar and a blade-like mushroom body growing from one end. Its common Chinese name is "Winter worm, summer grass." Due to the high cost of this herb, the Chinese produce the mycelium of this mushroom in liquid fermentation tanks. This pure mycelium product is primarily known as Cs-4. The authenticity of Cordyceps mycelium cultured from wild Cordyceps is not certain. Multiple cultures have been isolated from the wild Cordyceps, but none have actually produced the mushroom, a normal pre-requisite for determination of identity. A large body of research has demonstrated that *Cordyceps militaris* has similar active compounds and activities to *C. sinensis*. Today, it is being cultivated on substrates free from any insects. Nammex Cordyceps Mushroom Extract is certified organic, kosher, gluten-free, vegan, and non-GMO.

NAMMEX Reishi 16:1

Nammex Organic Reishi Mushroom extract 16:1. Reishi mushroom has been revered in China for thousands of years. It is depicted in many Chinese works of art and is utilized in Traditional Chinese Medicine. Scientific research into the compounds responsible for Reishi mushroom activity began in the 1970's in China and Japan. Scientists discovered highly active beta-(1→3)-glucans with the ability to potentiate innate immunity by activating immune cells. Also discovered were secondary metabolites called triterpenoids which were present in significant amounts and sets Reishi apart from all the other medicinal mushrooms. Nammex Reishi Extract is certified organic, kosher, gluten-free, vegan, and non-GMO.

Alpha-3 CMP™

Alpha-3 Condensed Marine Phytoplankton is a breakthrough product that has harnessed Earth's original food source and made it bio-available for the human cells. Marine phytoplankton's nutrition is so dense it not only sustains life, but provides optimal regeneration and energy to every cell in our body. Alpha-3 CMP Marine Phytoplankton is the only product that contains wild blends of hundreds of plankton species, and whose silica cell wall has been naturally and gently ruptured without the use of any heat, freezing, or chemicals to allow the essence of the phytoplankton to become bio-available for human consumption. Growing and harvesting are part of a patented process which mimics nature's way of providing these powerful nutrients.

MaitakeGold 404®

MaitakeGold 404® is a clinically tested, immune modulating extract of Maitake (*Grifola frondosa*) mushroom fruit body. Natural and self-affirmed GRAS, MaitakeGold 404® is a superior immune support ingredient that is appropriate for daily use 365 days a year. Maitake mushroom (commonly known as 'hen of the woods' or 'dancing mushroom') has been used traditionally for centuries as both a culinary and medicinal mushroom. Prior to modern cultivation techniques in controlled facilities, it was gathered in the wild from the base of oak, beech, and elm trees where it grows naturally on roots. In ancient times, because it was such a treasured food and healing source, when people discovered Maitake fruit bodies during their forays along mountainsides where it grew, they would purportedly dance for joy.

FulvicSure™

Branded blend of fulvic and humic acids. Humic and fulvic acids are considered the most chemically active compounds in soil. Fulvic acids are humic acids of lower molecular weight and higher oxygen content. Fulvic acid serves as an indispensable vehicle for carrying vitamins and other nutrients to the proper places in our bodies. Fulvic acid contains over 60 minerals and trace elements and is essential for cellular health. These humic substances act as powerful electrolytes and antioxidants. They are also natural chelators that bind and pull out toxic substances such as pesticides, herbicides, bad microbes and heavy metals. Their colloidal nature allows them to help the cells more efficiently respire, hydrate, absorb nutrients such as amino acids and eliminate wastes more effectively. Fulvic acid is rapidly being recognized as one of the key elements in many outstanding health and scientific breakthroughs of the 21st century. More and more scientists and doctors throughout the world are discovering fulvic acid, and are recognizing its extraordinary potential. Interest in the medical community has been escalating rapidly. A combination of Humic and Fulvic is believed to be the most powerful organic poly-electrolyte antioxidant and free-radical scavenger which aids to maintain a balanced cell life.

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TARGETED AREAS OF SUPPORT

● Virus Support

HumicSure™
Maitake Gold 404®
BGF-Immune®
Oliver™
GarliSure™
AP-Bio™
BiAloe®
Alpha-3 CMP™
NAMMEX Reishi 16:1
NAMMEX Cordyceps 10:1

● Bacteria Support

GarliSure™
Oliver™
AP-Bio™
NAMMEX Reishi 16:1
NAMMEX Cordyceps 10:1
NAMMEX Lion's Mane 8:1
BiAloe®

● Parasite Support

Oliver™
GarliSure™
AP-Bio™
BiAloe®
NAMMEX Reishi 16:1

● Yeast Support

GarliSure™
Oliver™
AP-Bio™
FulvicSure™
BiAloe®
NAMMEX Reishi 16:1

● Nutrient Restoration

FulvicSure™
HumicSure™
Alpha-3 CMP™
Camuninas®

● Endocrine Balance

MacaXtra™
BiAloe®
NAMMEX Reishi 16:1
NAMMEX Cordyceps 10:1
Alpha-3 CMP™

● Immune Optimization

Maitake Gold 404®
BGF-Immune®
AP-Bio™
BiAloe®
Alpha-3 CMP™
HumicSure™
Oliver™
NAMMEX Reishi 16:1

● Detoxification Support

Siliphos®
Greenselect®
FulvicSure™
Alpha-3 CMP™
Camuninas®
Pectasol-C®

● Liver Support

NutraLiver™ Blend
Siliphos®
NAMMEX Cordyceps 10:1
NAMMEX Reishi 16:1
BiAloe®
Alpha-3 CMP™
Maitake Gold 404®
FulvicSure™

● Gut Lining Support

BiAloe®
Turmacin®
Alpha-3 CMP™
AP-Bio™
HumicSure™

● Antioxidant Support

Camuninas®
Greenselect®
FulvicSure™
BiAloe®
Siliphos®
Maitake Gold 404®

● Inflammation Support

Lanconone®
Turmacin®
AP-Bio™

BOOSTERS

GarliSure™

Garlic has been used as both food and medicine for as long as humans have recorded history. It is interesting to note that the most important active compound, allicin, is not actually present in fresh garlic. Allicin is relatively unstable, and is produced by a cascade of chemical reactions that take place when fresh garlic is cut or crushed. GarliSure™ is a concentrated allicin extract made possible through advanced manufacturing methods.

Nutra Liver™

Nutra Liver™ Ayurvedic Health Blend is a proprietary blend of the Ayurvedic ingredients Phyllanthus, Bringaraj, Guduchi, Tephrosia Purpurea and Nirgundi. These herbal extracts are known for their ability to support optimal liver health and function.

Lanconone®

Lanconone® is a natural and safe proprietary blend of fast acting botanical extracts that has been clinically studied for joint support and discomfort. Lanconone® is the world's first clinically proven proprietary botanical active compound for rapid joint pain relief at par with Ibuprofen 400mg. It contains the herbs Commiphora Mukul, Pluchea Lanceolata, Boswellia Serrata, Withania Somnifera, Zingiber Officinale, Oroxylum indicum and Smilax china.

MacaXtra™

MacaXtra™ is a premium quality concentrated organic Maca root powder. MacaXtra™ is standardized to a minimum of 1% Glucosinolates. The maca plant, known scientifically as *Lepidium meyenii*, is sometimes referred to as Peruvian ginseng. Maca is a medicinal plant that mainly grows high up in the mountains of Peru in harsh conditions. Maca root powder is very nutritious, and is a great source of several important vitamins and minerals. Maca root has traditionally been used to enhance fertility and sex drive.

Oliver™

Oliver™ is an Olive Leaf Extract standardized to 15% of its key constituent, oleuropein. Oleuropein has been proven to be effective at supporting normal microbial balance in the body.

Camuninas® Powder

Camuninas® is a registered natural ingredient obtained from the Amazonian fruit Camu Camu by a controlled and patented process by which the functional and nutritional components are enhanced and preserved. This specialized production process preserves the quantity and the quality of the phytochemical components of Camuninas®. Camuninas® has higher vitamin C content than any other natural product in addition to the presence of polyphenols. This characteristic gives Camuninas® a high antioxidant potential and thus beneficial properties like anti-aging due to its complete multifunctional effects. The unique combination of the high vitamin c and polyphenols content rates Camuninas® among the most potent natural antioxidants. Camuninas a proprietary camu-camu fruit concentrate that is rich in naturally occurring vitamin C. The camu-camu used for Camuninas® is wild-crafted from the high altitude regions of Peru by local Indian tribes collecting ripe fruits of *Myrciaria dubia*. Through our clinical research we have observed a 25% higher absorption of Camuninas® vitamin C compared to the synthetic vitamin C in a period of 24 hours.

BOOSTERS

Turmacin® Organic Powder

Turmacin® is the first clinically tested water soluble composition derived from Turmeric completely untouched by solvents. Turmacin® is standardized to contain bioactive polysaccharides 'Turmerosaccharides' and does not contain curcuminoids. We utilize the newly developed organic version of Turmacin®.

NAMMEX Lion's Mane 8:1 Powder

Lion's Mane is an edible mushroom with many health benefits. It is a nootropic superfood that can modulate the immune system and provide many other health benefits.* Nammex only uses 100% organic fruiting bodies which are rigorously tested and guaranteed for active compounds. Nammex Lion's Mane Extract is certified organic, kosher, gluten-free, vegan, and non-GMO. Nammex Lion's Mane Extract is an 8:1 extraction for an extra-strength solution.

NAMMEX Cordyceps 10:1 Powder

Wild Ophiocordyceps sinensis is a rare and expensive Chinese herb. It consists of a caterpillar and a blade-like mushroom body growing from one end. Its common Chinese name is "Winter worm, summer grass." Due to the high cost of this herb, the Chinese produce the mycelium of this mushroom in liquid fermentation tanks. This pure mycelium product is primarily known as Cs-4. The authenticity of Cordyceps mycelium cultured from wild Cordyceps is not certain. Multiple cultures have been isolated from the wild Cordyceps, but none have actually produced the mushroom, a normal pre-requisite for determination of identity. A large body of research has demonstrated that Cordyceps militaris has similar active compounds and activities to C. sinensis. Today, it is being cultivated on substrates free from any insects. Nammex Cordyceps Mushroom Extract is certified organic, kosher, gluten-free, vegan, and non-GMO.

PectaSol-C® Powder

PectaSol-C® is the most researched and effective Modified Citrus Pectin (MCP) supplement available. Regular citrus pectin supports digestive health, but the molecules are too large to enter the circulation - meaning benefits are restricted to the GI tract alone. PectaSol-C® MCP solves this limitation with an advanced modification process that reduces the size and structure of the pectin. This allows PectaSol-C® to absorb into the circulation and deliver total-body benefits related to cellular health, immunity and more.*Ongoing clinical and scientific data demonstrates that PectaSol-C® MCP offers a number of important health benefits:

- Supports Cellular Health*
- Maintains Healthy Galectin-3 Levels*
- Supports Healthy Immune Response*

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ESSENTIAL SACCHARIDES

Science has long ago proven that our bodies need proteins, fatty acids, carbohydrates, vitamins, minerals, phytonutrients and enzymes for optimal health. Science has now proven that there are a number of biological sugars (monosaccharides) which are necessary for all cellular and immune functions, enabling the body to maintain health. These essential saccharides make up the “alphabetic code” that our cells use to communicate with each other.

Cell-Cell Communication:

There are approximately 200 monosaccharides found in nature. Eight of these are known to be essential components of cell-surface glycoforms used in cell-cell communication. Glycoproteins on the surface of every cell serve as signals to tell other cells who they are and what they need. If the cells do not have enough of the right essential saccharides, they cannot make the correct glycoproteins, and the cell-to-cell messages become disrupted. Subsequently, the immune system cannot effectively wage an offensive against intruders or imbalances.

Importance of Essential Saccharides:

Without adequate amounts of these essential saccharides the human body cannot function properly. In a perfect world our bodies would easily take glucose and convert it into all the other essential saccharides by glycosylation. Unfortunately, it is often very difficult for the body to synthesize adequate amounts of the missing saccharides. It takes an enormous amount of energy, up to 37 enzymatic steps, to synthesize these monosaccharides and things like stress, poor nutrition, toxins, or lack of sleep inhibit the process. Effectively supplementing with essential saccharides takes the burden off of our over-stressed bodies and supports cellular-communication networks resulting in overall better function.

GlycoLife Sciences:

At GlycoLife Sciences, we have identified natural sources of essential saccharides and have worked with a number of product developers and manufactures to attain potent extracts of these monosaccharides in their natural state. These essential sacchrides as found in their naturally occurring polysaccharide structures are adaptogenic and immunomodulatory with incredible potential. By utilizing cutting-edge technology these polysaccharide super-sugar chains are able to be isolated for maximum effectiveness, cutting out undesirable and toxic elements. With these powerful extracts at the core of our products we offer incredibly powerful, yet safe solutions for restoring function in the body.

Learn more at www.essentialsaccharides.com

THE SCIENCE BEHIND SUPERFOODS

These superfoods exhibit both immunomodulatory and adaptogenic properties: Panax Ginseng, Aloe Vera, Noni, Marine Phytoplankton, Spirulina, Chlorella, Reishi, Chaga, Cordyceps, Lion's Mane, Boswellia Serrata, Turmeric, Colostrum, Ashwagandha, Astragalus, Goji Berry, Andrographis, Larch Arabinogalactan, Holy Basil, Gynostemma, Maca, and Beta-Glucans.

Immunomodulation: the process in which an immune response is altered to a desired level.

Adaptogen: a natural substance considered to help the body adapt to stress and to exert a normalizing effect upon bodily processes.

Adaptogens have the intelligent ability to “modulate” the systems of the body and desensitize all cells in the body to any source of stress. These superfoods enable the body to adapt to current needs and normalize function. If the immune system is overactive they will help suppress it, if it is underactive they will help stimulate it. What gives these superfoods their immunomodulatory and adaptogenic properties? For this question to be answered the chemical compositions of these superfoods must be cross-analyzed to find what they all have in common. That is exactly what we have done at GlycoLife Sciences and the discovery is quite fascinating.

The Discovery:

After cross-analyzing these superfoods we discovered that they all contain polysaccharides consisting of specific monosaccharides proven to be essential in cell-cell communication. Scientists have identified a number of these “essential saccharides” that are found surrounding all living cells and are necessary for cell-cell communication. From this we can hypothesize that the adaptogenic and immunomodulatory properties of these superfoods is at least partly due to the presence of polysaccharides consisting of essential saccharides. It would make sense that enhanced cellular-communication would result in such properties.



The Conclusion:

We can hypothesize that essential saccharide-containing polysaccharides are at least partly responsible for the adaptogenic and immunomodulatory properties found in certain superfoods.

At GlycoLife Sciences, we have identified natural sources of these essential saccharides and have worked with a number of product developers and manufactures to attain potent extracts of these sugars in their natural state. By utilizing cutting-edge technology polysaccharides are able to be isolated for maximum effectiveness, cutting out undesirable and toxic elements. With these powerful extracts at the core of our products we offer incredibly powerful, yet safe solutions for restoring function in the body.