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Life today moves at a blinding pace. Between rushing from place to place, and shuttling between time-zones, adequate nutrition has taken a backseat. Unhealthy dietary substitutes, stress, pollution, and unhealthy food habits have led to lifestyle-related health issues. On the positive side though, people are starting to become health conscious, and are moving towards natural and organic preventive care. At GLN Laboratories, we recognise this trend, and are proud to bring you specially formulated products to enrich people's lives, and inspire healthier lifestyles.

Because we know, good health is at the heart of all things good.



VISION

Empower people to lead extended and enriched lives

MISSION

Create and promote healthy, natural products, addressing lifestyle-related issues

OUR VALUES

At the heart of
all our beliefs

LONGEVITY
Enable wholesome,
enriched lives

INTEGRITY
Conduct business
with conscience

VALUE
Generate value
for shareholders

IMPACT
Grow hand-in-hand
with the community

OUR LEGACY

At the heart of everything we do

Where we are from, inspires and enables us to do better. At GLN Laboratories, it is our collaboration with International Media and Cultures (IMAC, USA) under its parent company American Dairy Food and Consulting Laboratories (ADFAC Labs) that drives us every day.

ADFAC Labs was founded in 1982, and has over 250 employees. ADFAC manufactures cheese and dairy microbial cultures, probiotics, and satellite biological and biochemical systems used in American and European dairy products. It has a formidable presence in the American and European cheese markets, with 12 FDA approved manufacturing plants across 8 states in the U.S.A. Guided by award-winning microbiologists and food technologists, along with sizeable investments, the company ensures that R&D plays an important role in the innovation lifecycle. Having the support of such an entity only helps us get closer to our goals.



OUR PEOPLE

At the heart of our efforts

The people we work with, the people whose footsteps we strive to follow and define our principles. At GLN Laboratories, we have been fortunate enough to have true icons in the health, nutrition and business world to lead our way.

Dynamic
Passionate
Energetic

D. Siddharth Reddy

Founder & CEO

- Siddharth is the Founder and CEO of GLN Laboratories, a niche nutraceutical company catering to healthcare and wellness.
- An engineer who pursued Masters in Computer Science from University of Illinois and Masters in Management from Duke University in U.S.A.
- Spent 6 years in various positions and gained enormous experience in the Asset Management industry at Deutsche Bank, supporting clients and their portfolios with assets over 300 billion US Dollars. In this short span he was able to achieve various accolades from management and was quickly promoted to senior positions.
- Been exposed to the family business in the healthcare & wellness industry, he decided to take the plunge and launch his own venture - GLN Laboratories. With world class education, the experience gained from the corporate world and the passion to make a difference in this space, he endured upon the journey with the aim to grow the company into a niche nutraceutical company globally.
- Enjoys trekking and playing sports like football, tennis and golf.

Dr. Malireddy Srinivasulu Reddy, Dr. M.S. Reddy

Technical Advisor - Inventor

- DVM, M.S. Ph.D. Veterinary Medicine, Food Technology and Microbiology
- Nobel Peace Prize Nominee – 2014, 2015, 2016, 2017
- Received M.S. and Ph.D. degrees from Iowa State University (U.S.A) with Honors and Distinction
- Chairman and President of International Media and Cultures (IMAC, Inc.), American Dairy and Food Consulting Laboratories (ADFAC Labs USA)
 - Manufacturer of Cheese and Dairy microbial cultures, probiotics, satellite biological and bio chemical systems which go into the American and European dairy product manufacturing
 - Huge presence in the American and European Cheese markets with 12 Manufacturing Plants across 8 states in U.S.A
- Life member of the American Association of Physicians of Indian Origin, affiliated with American Medical Association
- Holds over 150 international patents, published over 100 scientific papers, has written 3 books and served as a consultant for over 70 national and international companies
- Recognized worldwide and received over 140 honours and awards - Richard M. Hoyt Memorial award (Only Indian or Foreign-born citizen to receive this prestigious award)- Sigma-Xi Research award
 - Best Medical Research award at the 68th Indian Pharmaceutical Congress for the discovery of novel multiple mixed strain probiotic therapy in 2016
 - Pride of India award in 2012
 - Outstanding Scientist award from IAFC, Washington, D.C., presented by former Prime Minister of India, Honorable P.V. Narsimha Rao
 - Outstanding Businessman of the year award consecutively for three years
 - Prestigious U.S. President Ronald Regan Gold Medal award from U.S. Vice President, Honorable Dick Cheney
 - Entrepreneur of the Year award in 1996
 - Bharath Gaurav award from former Prime Minister of India, Honorable I.K. Gujral
 - Hind Rattan award from former Prime Minister of India, Honorable I.K. Gujral

- Received 3 lifetime achievement awards for his research efforts, which have contributed to the welfare of the humanity and world economy (his inventions contributed over 1 trillion US Dollars towards world economy)
- Serves on the committee of Complementary Alternative Medicine Division of AAPI (American Association of Physicians of Indian Origin, the largest professional medical association) (Complimentary alternative medicine is the most upcoming science in this decade and going forward).

Dr. Damavarapu Radhakrishna Reddy, Dr. D.R.K. Reddy

Technical Advisor - Biotechnology & Probiotics

- Engineer, Applied Biotechnologist
- Received B.E. from Bangalore University
- Retired from the Indian Government service in 1989 as Deputy Superintendent Engineer, and pursued Biotechnology on his own
- Received practical training in the field of Biotechnology in U.S.A and Europe
- Has applied biotechnology in Ayurveda and obtained a U.S. patent and international patents including India and China
- Recipient of various prestigious awards
 - National Citizens award of India
 - Outstanding Biotechnologist award from American Telugu Association at Chicago
 - Udyog Ratna award from Delhi Telugu Academy
 - Notable Bharath Gaurav award from the Governor of Andhra Pradesh, Honorable Sushil Kumar Shinde
 - Meritorious Hind Rattan award from the former Prime Minister of India, Honorable I.K. Gujral
- A great philanthropist and has donated to various foundations to educate the poor and underprivileged and also to build medical and veterinary hospitals

- Honoured by the former Vice President of India, Honorable Krishna Kanth for this noble deed.
- Besides being an appointed Foreign Director, he was the invited guest of honour to attend the White House briefings, U.S. Senate luncheon at the Capitol building, and annual meetings of the Indian American Friendship Council at Washington, D.C.
- Has over 15 scientific publications including presentations made at various scientific, medical, professional, and trade associations both in India and U.S.A.

Syama M. Reddy

Technical Advisor - Nutrition

- Has a B.Sc. in Nutrition and B.S. in Dietetics from Iowa State University
- Served as the Vice-President of American Dairy and Food Consulting Laboratories, USA for over three decades
- Built a multimillion-dollar real estate empire in the United States, India and other countries
- Received various prestigious awards
 - Entrepreneurial Businesswoman of the Year
 - Entrepreneur of the Year
 - Entrepreneur of the World
 - Hind Rattan award
 - Bharat Gaurav award
 - Mercurial Businesswoman award in Washington, DC, USA.
 - Collaborated in R&D with Adfac Labs India Pvt. Ltd.
 - Pioneered the concept of Proyurveda (Probiotics + Ayurveda)

OUR THEORY

ROS – at the heart of aging

Advances in medical sciences are increasingly helping us live longer. At the same time, a long life with excellent health is at the heart of a happy, contented existence.

Aging is inevitable. Aging 'well' is an aspiration many hold, but few manage to get away with. People are robbed of their good looks as they age, and the two conditions leading to it are sarcopenia – the loss of muscle tone, and osteoporosis – excessive loss of bone mineral calcium. With reduced bone mass, the muscular strength and contour of the face and the body are altered, making one look older. Also, susceptibility to any particular disease depends upon one's genetic makeup and lifestyle, adding to the manifestations of aging.

Reactive Oxygen Species (ROS)

Accelerating aging

About half a century ago, the free radical theory of aging was proposed. The theory suggested that Reactive Oxygen Species (ROS) is a key component contributing to the pathophysiology of aging, by causing oxidative stress. Excessively formed free radicals induce oxidative reactions, causing damage to cell membranes, DNA and other cellular structures. As a result, cells may lose their functional abilities.

A surplus of reactive oxygen or a shortage of antioxidants is associated with arteriosclerosis, cancer, cardiovascular diseases, diabetes, inflammatory

diseases, obesity, and aging. Additionally, factors like lifestyle, nutritional insufficiency, environmental and genetic factors are also known to be associated with occurrence of oxidative stress.

Inadequate nutrition

Quickening the aging process

A sufficient, balanced and nutritious diet fuels the body's metabolic process. It helps meet daily micronutrient needs, and provides energy to get through the day. Unfortunately, many do not receive the essential vitamins and minerals from their diet. The risk of inadequate micronutrients is multiplied by weight-reducing diets, insufficient/imbalanced nutrition, eating disorders, or physical or mental stress.

Also, improper lifestyle factors such as rushed meals, unhealthy food choices, chronic dieting, smoking, excessive alcohol and high occupational pressure can result in a lack of well-being, reduced immunity or impaired mental processes.

Considering the above, a heathy physical appearance is, essentially, a combination of nutrition and control over ROS.



OUR SOLUTION

Right Supplementation – at the heart of health and anti-aging

A long, healthy life is a direct outcome of good health; it can be summed, simply, as 'anti-aging'. Today's consumers desire to stay younger, for longer. They are getting increasingly aware of the connection between lifestyle, diet and good health, and are demanding products that enhance health beyond basic nutrition.

Scientifically supported, natural products that boost immunity and help maintain overall good health, can fill this need gap. In addition, if they have proven health benefits and fit the daily recommended dietary intake, they are bound to be accepted and preferred.

Excessive free radicals may impair the body's natural cellular antioxidant defence, leading to oxidative stress, and subsequent cellular functional impairment. Any intervention that limits or inhibits free radicals would reduce the rate of aging and disease pathogenesis. Bioavailable minerals, especially calcium, and probiotics provide the answer. Supplemented daily, they are the best way to assure health and support anti-aging.

Calcium is needed throughout life, and is crucial for bone formation and absorption of other nutrients. An ideal approach to ensuring calcium absorption is to supplement it with a mix of soluble dairy source of bioavailable calcium, essential minerals, non-specific dairy-related peptides and amino acids, with probiotics. A daily supplementation of such a combination would arrest bone loss and early aging.

OUR PROCESS

At the heart of our excellence

The call for scientifically supported, natural products with proven health benefits. GLN's scientific expertise and proprietary processes ensures this gap is filled.

Improved Bioavailability - Natural Nanotech process

Nanotechnology is the engineering of functional systems at a molecular scale. By definition, a nanometer is a billionth of a meter. Just to illustrate how tiny things get at this level, a typical single cell probiotic bacteria measures about 1000 nanometers, whereas a bacterial virus is 1 to 10 nm. If a bacterium has to assimilate the food ingredient, it has to break the ingredient to at least 10 to 100 times smaller. This results in nano-sized particles of less than 100 nm in size.

That is how tiny it gets.

And that is how deep we go to make products that work. Our Proprietary Natural Nanotech Process is proof enough. GLN's proprietary bacterial fermentation process creates nano-sized particles which are easily absorbed by human bodies.

The probiotic bacteria we use, reduce key ingredients to nano-size, a transformation achieved by:

1. solubilization of the minerals in the microenvironment of the probiotic bacteria
2. assimilation of such particles through cell membrane, thus further reducing them to smaller sizes in the cytoplasm

The process of fermentation is the best to generate both extracellular and intracellular nano-particles from beneficial probiotic bacteria. The resultant particles are intact even after spray drying, thus improving bioavailability. These bioavailable nanoparticles diffuse and react faster through fast ion transport in the human gastrointestinal tract. In effect, smaller particles have increased surface-area-to-volume ratio, and thus have increased mechanical, thermal and catalytic properties as compared to parent particles.

Probiotics

They are the new 'health miracles', claiming to cure health problems ranging from constipation, to diarrhea, to even preventing or fighting colds.

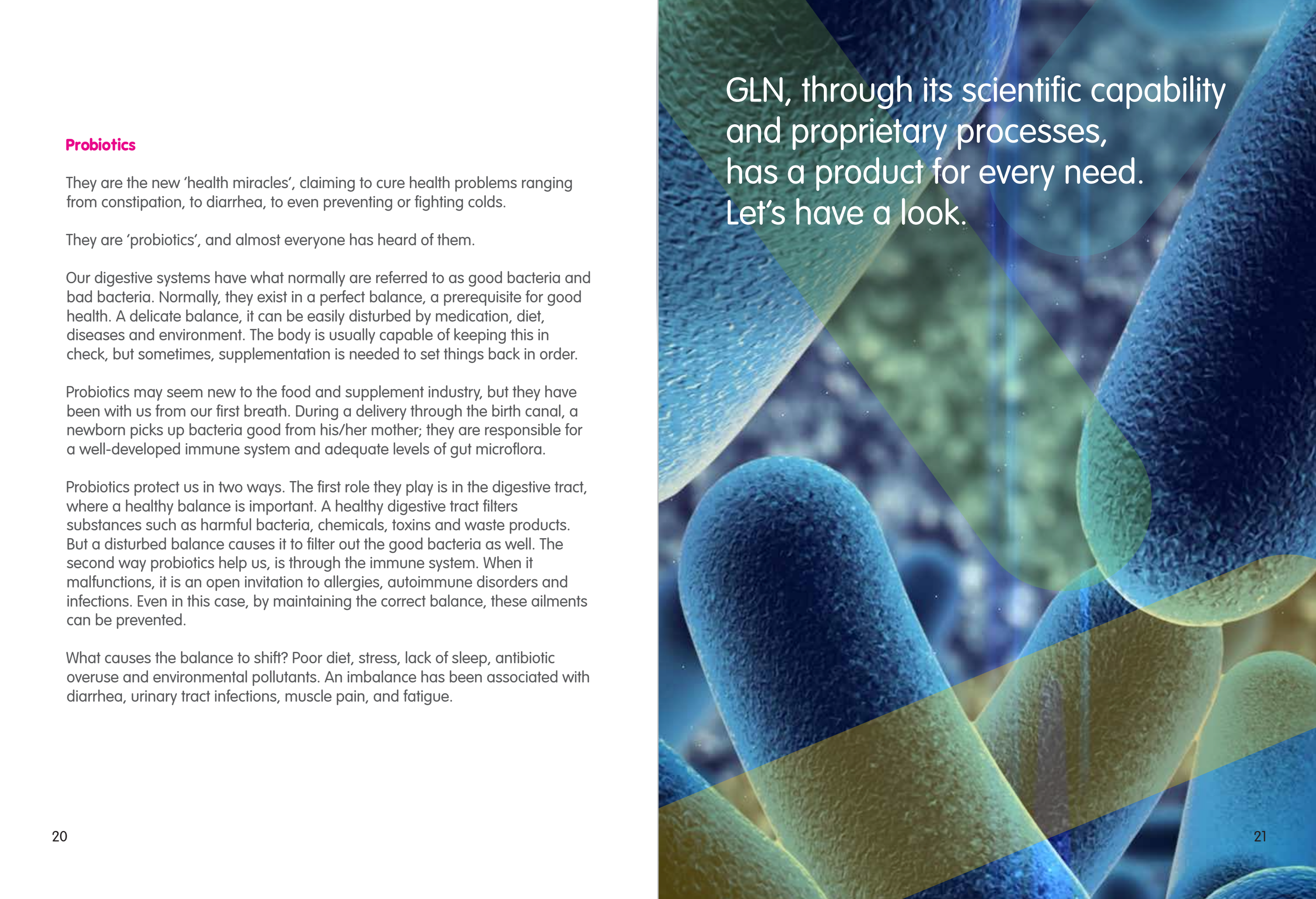
They are 'probiotics', and almost everyone has heard of them.

Our digestive systems have what normally are referred to as good bacteria and bad bacteria. Normally, they exist in a perfect balance, a prerequisite for good health. A delicate balance, it can be easily disturbed by medication, diet, diseases and environment. The body is usually capable of keeping this in check, but sometimes, supplementation is needed to set things back in order.

Probiotics may seem new to the food and supplement industry, but they have been with us from our first breath. During a delivery through the birth canal, a newborn picks up bacteria good from his/her mother; they are responsible for a well-developed immune system and adequate levels of gut microflora.

Probiotics protect us in two ways. The first role they play is in the digestive tract, where a healthy balance is important. A healthy digestive tract filters substances such as harmful bacteria, chemicals, toxins and waste products. But a disturbed balance causes it to filter out the good bacteria as well. The second way probiotics help us, is through the immune system. When it malfunctions, it is an open invitation to allergies, autoimmune disorders and infections. Even in this case, by maintaining the correct balance, these ailments can be prevented.

What causes the balance to shift? Poor diet, stress, lack of sleep, antibiotic overuse and environmental pollutants. An imbalance has been associated with diarrhea, urinary tract infections, muscle pain, and fatigue.

A microscopic view of various bacteria, primarily in shades of blue and green, with some yellowish-green structures. The bacteria are shown in different orientations and sizes, creating a complex, textured background.

GLN, through its scientific capability and proprietary processes, has a product for every need. Let's have a look.

OUR PRODUCTS

At the heart of passion and innovation

A healthy, nutrient-enriched lifestyle needs products that do exactly what they say, are supported by science, and above all, make business sense.

GLN Laboratories' speciality lies in nano-sized bioavailable minerals, probiotics and developing an innovative mix of natural ingredients that yield perceptible results. All our formulations are designed to address lifestyle-related issues commonly faced by people today, and enable them to lead extended and healthy lives.

Note: These products are to be used as supplements, are not designed to treat, cure or diagnose diseases, and are not approved by the FDA to do so.

All formulations conform to the classification of nutritional supplement as per the United States Code of Federal Regulations and USFDA. All ingredients are classified as Generally Regarded As Safe (GRAS).

MILK CALCIUM COMPLEX

The essence

A good, solid bone structure lies at the heart of a healthy body. And a major building block of bone tissue is calcium – it is non-negotiable for proper development of the skeleton and adequate mineralization of the bones. However, there are cases where the calcium quotient gets compromised. Adolescents, women, the elderly, and those with milk allergy or lactose intolerance are at highest risk for dietary calcium deficiency. What adds to the problem is the reduced intake of dairy products and other naturally calcium-rich foods, by dint of a hectic, erratic lifestyle and less-than-healthy food habits. Early attention to building strong bones is the order of the day. As is a conscious move towards a calcium-balanced, healthy lifestyle.

Osteoporotic fractures occur every 3 seconds with 1 in 3 women and 1 in 5 men aged above 50 years experiencing osteoporotic fractures worldwide.

Calcium derived from milk source can positively impact bone mass growth, leading to a long-term increase in bone mass accrual. The increase lasts even after supplementation is ceased, which is not the case with other calcium salts like Calcium Carbonate, Calcium Citrate, etc. Calcium in this form appears to ensure better bone mineralization as well. As the body absorbs most of the calcium, the common side effects of calcium supplementation like calcification and gas are eliminated.

The chemical structure and composition of Milk Calcium Complex is very similar to that of human bone tissue, as demonstrated below:

Minerals	Human Bone	Milk	Milk Calcium Complex	Common Calcium Supplement
Calcium	✓	✓	✓	✓
Phosphorous	✓	✓	✓	
Magnesium	✓	✓	✓	
Potassium	✓	✓	✓	
Sodium	✓	✓	✓	

THE FORMULATION

GLN's Milk Calcium Complex is an all-natural, bioavailable Calcium mineral complex, proven for its benefits in retention and improvement of bone density. Its uniqueness lies in the fact that it is pre-ionized, and is made available in nano-sized particles – ready to be absorbed without having to rely on the body's natural process for creating and absorbing Calcium ions. Milk Calcium Complex is a proprietary blend of Calcium and other essential minerals (phosphorus, magnesium and potassium) including trace minerals (Iron, Copper, Zinc, Chromium, Manganese, Molybdenum and Selenium). These are extracted from a milk source and fermented through a unique, enzymatic, proprietary spray drying process; it results in perfect ionization and break-down of milk-derived proteins into smaller peptides, facilitating optimum calcium absorption. Breakdown of lactose sugar helps reduce lactose intolerance problems.

PRODUCT LINES

Adolescents, Adult Men & Women,
50+ Men & Women, Pregnancy

ANTI-AGING FORMULA

The essence

Ageing happens at a much deeper level than one imagines. It expresses itself in a progressively failing ability of the body's intrinsic and genetic powers to defend, maintain, repair and keep working efficiently. Oxidative damage – by dint of excessive ROS production and reduced antioxidant defense – is a major cause of human ageing. Reduction in bone mass is one of its key offshoots. It alters the muscular strength and contour of the face and the body, often making the body's biological clock tick faster than its chronological clock. Age-related bone loss, through a steady decline in bone quantity and quality, increases risk of fracture. And the implications of ageing don't stop there. It leaves the body susceptible to sarcopenia and osteoporosis – two diseases that don't just affect people's looks as they age but also deprive one of their physical fitness. In modern societies with increasing life expectancy, the functional ability of elderly as to how well they cope with activities of daily living, which in turn affects their quality of life, is paramount. In sum, just like ageing, the way to counter it has to start from within.

Milk Calcium Complex provides a highly bioavailable mix of Calcium, rejuvenating anti-oxidants and other essential minerals (Phosphorus, Magnesium, Sodium and Potassium) including trace minerals (Iron, Copper, Zinc, Boron, Chromium, Manganese, Molybdenum and Selenium). It facilitates optimum calcium absorption, providing for strong bones and luminous skin, nails and hair. Bone turnover requires continuous ingestion of new amino acids. Functional specific probiotics are included to help with absorption of minerals, removing the toxins, reducing amines, and aid in neurotransmission. Common side effects of calcium supplementation like calcification and gas are eliminated.

According to WHO, noncommunicable diseases like cardiovascular diseases, cancers, chronic respiratory diseases and diabetes kill 38 Million people each year. Sixteen million of these deaths occur before the age of 70.

THE FORMULATION

GLN's Anti- Aging Formula is an all-natural, unique formula with milk calcium complex. It is a proprietary blend of rejuvenating anti-oxidants and bioavailable calcium, along with major and minor minerals of milk origin, produced using nanotechnology. Comprising functional specific probiotics, this formula allows one to lead a strong and healthy life.

PRODUCT LINES

Adult Men & Women, 50+ Men & Women

ULTRA SKIN BRIGHTENER

The essence

Aging – whether intrinsic (led by genetics, cellular metabolism, hormone and metabolic processes) or extrinsic (caused by chronic light exposure, pollution, ionizing radiation, chemicals, and toxins) – it takes its toll on skin. A complex biological process, it results in several functional and aesthetic skin changes – in essence, it robs skin of its sheen and suppleness.

Chronological aging and photo-aging are the two independent and different biological mechanisms resulting in skin aging. The former is a natural, continuous process that normally begins in the mid-20s, but may not be visible for decades, whereas the effects of photo damage are often evident many years before intrinsic aging is apparent. The damage wrecked by UV radiation-induced free radicals play a pivotal role here: they lead to premature aging of skin cells.

Aging skin is characterized by wrinkles and atypical pigmentation. These are the results of intracellular and extracellular oxidative stress initiated by reactive oxygen species (ROS). Thus, to restore skin to all its glory, it's vital to restore the oxidative balance.

Antioxidants have a unique role to play when it comes to diminishing the appearance of fine lines and wrinkles. Glutathione is a key antioxidant for healthy skin. Milk Calcium Complex facilitates optimum calcium absorption that removes toxins and provides for wrinkle free and luminous skin. Functional specific probiotics help with absorption of minerals and remove the toxins.

THE FORMULATION

GLN's Luminous Skin Brightener is an all-natural highly bioavailable unique formula for glowing, healthy skin. It is a proprietary blend of enzyme-assisting antioxidant vitamins and other bioavailable antioxidants for glowing and healthy skin. Comprising bioavailable essential major and minor minerals, peptides and amino acids, the formula improves skin texture. Carefully selected, functional specific probiotics boost the skin's health. Although, skin complexion is genetic, improving the skin health and ex-foliation of dead skin cells, Ultra Skin Brightener will significantly improve complexion and skin glow.

Among all the environment factors in the development of skin aging and skin cancer, UV radiation induced free radicals is a major risk factor at 80%

PRODUCT LINES

**Adult Men & Women,
50+ Men & Women**

HAIR & NAILS FORMULA

The essence

Hair and nail appearance is one of the best indicators of overall health. Like the rest of the body, they are also subject to intrinsic or chronological aging, and extrinsic aging due to environmental factors. Oxidative stress also plays a role in the aging process. Both occur in conjunction or are superimposed on each other. Hair aging usually manifests in decreased hair pigmentation (graying) and decrease in hair production (alopecia). Like hair, nails are made of modified keratin. Virtually every nutritional deficiency can affect the growth of the nail in some manner; nail manifestations are often seen in malnutrition.

Proper nutrition, like in most cases, is at the root of healthy hair and nails. And here too, calcium comes to the rescue. One of the body's most sought-after minerals, its insufficiency is seen clearly in the hair and nails. Consuming extra calcium might not be enough, and might need vitamins and minerals to aid the absorption of calcium. Here, antioxidants and essential vitamins and minerals such as, zinc, biotin, and vitamins A, C, and B can help improve the health and appearance of your hair and nails.

THE FORMULATION

GLN's Hair & Nails Formula helps maintain sleek hair and healthy nails. It is a unique blend of essential antioxidant vitamins, bioavailable essential major and minor minerals, amino acids and probiotics. Zinc, biotin, and Vitamins A, C and B, along with Milk Calcium Complex that prevents hair loss and unsightly ridges on nails.

PRODUCT LINES

**Adult Men & Women,
50+ Men & Women**

**6-23% of people
have premature
hair greying by the
age of 50.
10% of dermatologic
conditions comprise of
nail disorders**

8-HOUR ENERGY

The essence

It is ironic that in a fast-paced life, it's our erratic and unhealthy lifestyle that slows us down – in terms of lack of well-being, general fatigue, impaired mental processes like memory, concentration, attention, mood, and reduced resistance to infections. And at the heart of this energy deficit lies something called micronutrient deficiency.

A well-balanced diet usually provides for the body's micronutrient requirements. However, unhealthy food choices, rushed meals, dieting fads, and rising stress levels help create a nutrition gap. Even mild micronutrient deficiencies can bring energy levels down.

The importance of micronutrients for energy metabolism and the risks posed by an inadequate micronutrient status in otherwise healthy individuals can't be overstressed. It is not just the elderly, but the young and middle-aged adults who are also at risk, especially those leading a demanding lifestyle. Lack of micronutrients may impair cellular energy production, resulting in symptoms of tiredness and lack of energy. And a balanced micronutrient intake is the need of the hour, to keep pace in today's world.

Antioxidants and essential nutrients can give the body the boost it needs to increase energy naturally by neutralizing free radicals. Energy producing compounds, rechargeable antioxidants, bioavailable essential vitamins and major and minor minerals perform excellent catalytic functions both at the cellular and tissue level that provides consistent energy for 8 hours at a stretch, and functional specific probiotics further boost energy.

THE FORMULATION

GLN brings you 8-Hour Energy – an all-natural formula that helps maintain high energy levels and wellbeing. It is a blend of bioavailable vitamins, and major and minor minerals; these have been produced using nanotechnology. This helps them diffuse freely and perform excellent catalytic functions both at the cellular and tissue level, providing consistent energy for 8 hours at a stretch.

PRODUCT LINES

**Adult Men & Women,
50+ Men & Women**

It is estimated that lost productivity due to fatigue is costing American businesses about \$136 million annually.

ANTI-HANGOVER FORMULA

The essence

Hangover. There is a whole bunch of adverse effects that reside in the space of these 8 letters; an unpleasant feeling arising after a day of excessive drinking is just one of them.

A hangover develops when the blood alcohol concentration returns to zero, and is characterized by a feeling of drowsiness, loss in concentration, dry mouth, dizziness, gastro-intestinal complaints, sweating, nausea, hyper-excitability, and anxiety which may last more than 24 hours. The extent of the hangover is proportional to the amount and duration of alcohol consumption.

With a trend of health-consciousness and productivity-optimization on the rise, a natural and organic anti-hangover formula is precisely what's needed.

The B-group vitamins are critical for metabolism in the body, and during a night of heavy drinking, they are likely to be excreted in the urine, as alcohol is a diuretic. Alcohol metabolism may also cause additional requirements of essential B-Vitamins. Functional specific probiotics help with absorption of minerals, removing the toxins, reducing amines, which further relies on the detoxifying effects of probiotics that work through a microbial enzymatic system.

THE FORMULATION

GLNs Anti-Hangover Formula is a unique formulation that eliminates the undesirable effects of alcohol. It relies on the detoxifying effects of probiotics that work through a microbial enzymatic system. To be taken either before or after alcohol consumption, the formula contains natural hangover-eliminating vitamins. It's safe, food-grade antioxidants have synergistic effects as well as regenerative effects that get rid of hangovers.

In UK, it is estimated that 17 million working days are lost each year because of alcohol-related sickness which the economy £7.3bn per year due to lost productivity.

MALE ENERGEE

The essence

The book defines 'libido' as a person's desire for sexual activity and sex-seeking behaviour. Loss of libido is a not an uncommon symptom among males, and could be affected by many factors – fatigue from long, irregular working hours, stress related to work, finances, health or relationships, depression, anxiety or low self-esteem and relationship problems. And it's not just the psychosocial factors that are at play here. It is also linked to biological (diabetes, thyroid disorders and other endocrinopathies) and iatrogenic factors (medications). ROS play an important role in age-related reduction of testosterone production by the leydig cells. Oxidizing molecules generated by environmental insults such as ultraviolet irradiation, cigarette smoke, and air pollutants, drugs and ethanol add to local and systemic oxidative stress. In other words, libido loss goes beyond creating distress for the male and / or his partner. It is about loss of health, confidence and quality of life. What the person needs is a solution that truly understands this.

Specific antioxidants and mitochondrial protective nutrients such as vitamins and minerals can augment the antioxidant defenses and reduce cell-wide oxidative damage, support redox balance within Leydig cells, oxidative inhibition of testosterone synthesis, and increase testosterone secretion.

THE FORMULATION

A specifically designed all-natural formulation, Male Energiee improves sexual urge and sustainable male stamina. It also helps reduce stress and anxiety significantly, restoring libido to enhanced levels.

31% of males have sexual dysfunctions and 15% have hypoactive sexual desire disorder, associated with various medical and psychological causes

PRODUCT LINES

Adult Men, 50+ Men

FEMALE ENERGEE

The essence

Sexual desire or libido is not simply the equivalent of frequency of intercourse; it is difficult to measure objectively. In fact, it is a mix of various textures – physical, emotional, social and clinical. Low sexual desire is a common problem amongst women of all ages. When associated with distress, it is known as hypoactive sexual desire disorder (HSDD). Age, menopausal status, stress, relationship difficulties, medical co-morbidities, drugs – the underlying causes of low sexual desire are numerous. On the emotive front, it is associated with low self-esteem, depression, emotional or psychological distress. Women with low sexual desire are more likely to experience lower arousal and pleasure, orgasmic difficulties and suffer dissatisfaction with their sex life and relationship. What makes it worse is the fact that women may be reluctant to report it. In other words, the problem may be more widespread than believed to be. Restoring her libido, in essence, would go a long way in restoring her quality of life – with all its varied textures.

An imbalance between pro-oxidant molecules gives rise to oxidative stress that can have an effect on the entire reproductive lifespan of a woman. Vitamins and minerals are holistically validated for maintaining good sexual health. Vitamins are important nourishment of endocrine glands that enhance hormone secretions and have aphrodisiac value enhancing sexual vigour.

43% of females have sexual dysfunctions and 30% have hypoactive sexual desire disorder, associated with various medical and psychological causes

THE FORMULATION

A specifically designed all-natural formulation, Female Energiee improves sexual urge through normalizing of the hormonal balance. It also helps reduce stress and anxiety, and brings back boundless energy for an active sex life.

PRODUCT LINES

Adult Women, 50+ Women

WEIGHT-LOSS FORMULA

The essence

Obesity is a rising epidemic worldwide. It reflects the profound changes in society – economic growth, modernisation, urbanisation and globalisation of food markets. While these are thought to be some of the factors underlying obesity, on an essential level, genetic makeup, high-calorie diets saturated in fats and sugar, and lack of physical activity are the primary causes. Obesity affects almost every organ system in the body, and is an independent risk factor for mortality. Adverse metabolic effects on blood pressure, cholesterol, triglycerides and insulin resistance are just some of the consequences. It may also be associated with non-fatal but debilitating health problems such as respiratory difficulties, chronic musculoskeletal problems, skin problems and infertility. Weight loss has beneficial effects on all of the above, and psychological status as well. A 5-10% weight loss is clinically significant, and can reduce heart disease risk and diabetes.

Dietary calcium plays an important role in regulating energy metabolism and obesity risk. Higher calcium and magnesium levels can absorb sugar (glucose) and convert it to energy. Calcium also provides small increases in thermogenesis, the body's core temperature. This may boost metabolism and prompt the body to burn fat.

**More than 1 billion
adults are overweight
and at least 300
million are
obese worldwide.**

THE FORMULATION

GLN's Weight Loss Formula is an all-natural, highly bioavailable formula that aids in weight loss. It is a unique proprietary blend of essential vitamins, bioavailable essential major and minor minerals and probiotics. All these minerals are extracted from milk source and fermented through a unique proprietary process that results in perfect ionisation, facilitating optimum calcium absorption.

PRODUCT LINES
Adult Women

NON-HABIT FORMING SLEEP-AID FORMULA

The essence

Sleep is a complex neurological state. Its primary function is to provide rest and restore the body's energy levels. In adults, a sleep cycle of 7- 8.5 hours is considered fully restorative. Bad sleep can affect not only a person's physical and mental health, but can even impair his/her moral judgments. Sleepiness from any cause can result in impaired attention with possibly disastrous results. Sleep disturbances and wakefulness may be associated with mental, neurological, and other medical disorders. Such disorders commonly affect the quality and quantity of sleep, and could lead to increased morbidity.

Having a glass of milk before sleep is a well-known fact and oft practiced ritual. This is because milk contains Tryptophane, an amino acid that induces sleep by getting the brain in a relaxed state. Calcium is directly related to sleep cycles; its levels are higher during deep sleep levels (REM). Therefore, an uneasy sleep may be related to calcium deficiency.

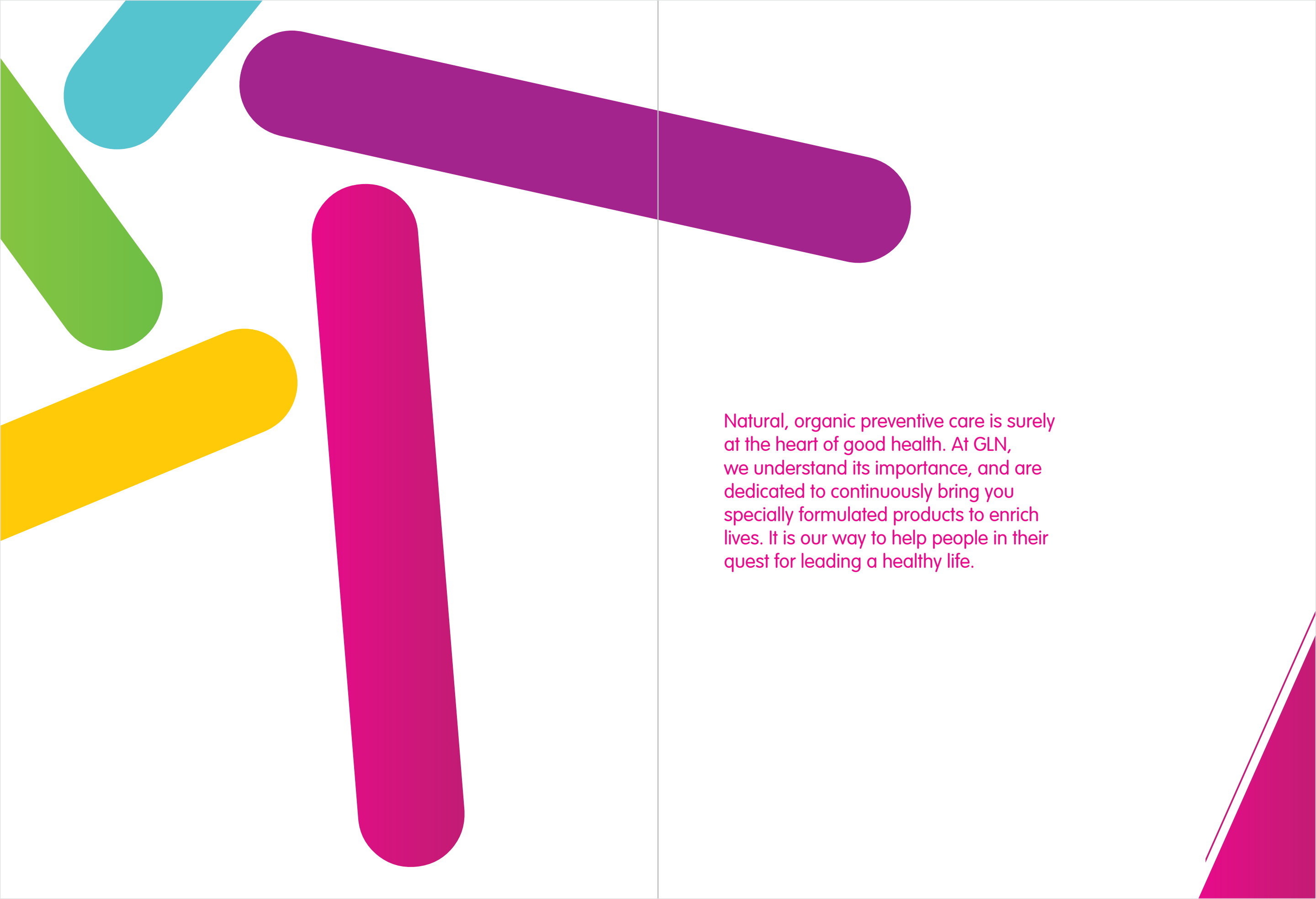
Insomnia is the most common sleep disorders with 30% of adults having difficulty in initiating or maintaining sleep

THE FORMULATION

GLN's Sleep-Aid Formula is an all-natural, science-backed formulation. It is non-habit forming, and induces and sustains sleep through the night, through a proprietary blend of sleep-inducing vitamins, bioavailable essential major and minor minerals, amino acids and probiotics. Calcium and magnesium, predominantly, are directly related to sleep cycles, and in a balanced ratio, are important to overall health. Functional specific probiotics are also included to help with mineral absorption, toxin removal, amine reduction and aid in neurotransmission.

PRODUCT LINES

**Adult Men & Women,
50+ Men & Women**



Natural, organic preventive care is surely at the heart of good health. At GLN, we understand its importance, and are dedicated to continuously bring you specially formulated products to enrich lives. It is our way to help people in their quest for leading a healthy life.



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