



CRESCENT BIOLOGICALS PVT LTD

(HERBAL FORMULATIONS)



About Us :

An women entrepreneurship organization started in the year 2017, by Founder Mrs. Prabhavathi Prem Kumar with the extreme support of Dr. Prem Kumar (CEO) an Innovative thinker. our Company is supported by Innovative and Passionate team of professionals The Company is involved in manufacturing and exporting of Natural products, Pharmaceuticals products, Natural Proteins, Essential Oils, etc It find the way for the man kind, without disturbing the Nature Highly qualified personnel are associated for the research & development of the Organization.



Our Company Products :

Herbal Sprays

Herbal Dips

Black Garlic

Essential Oil

Botanical Extracts

Proteins

Natural Gums

Dehydrated Products



Factory Area : Around 8 acers
2000 Liter of extractors
Farming : 4 Acers
60000 sq.ft working site

Facilities :



Laboratory



Farming seeds & Plantation

Quality Management System:

Crescent has a well defined Quality Assurance system and Quality management policy. We are committed towards products Quality that meets standards and continual customers improvement. We follow stringent quality system to guarantee the safety, efficacy of each product.



Quality Control :





BENEFITS

- It Stimulates pancreatic B-cell regeneration and enhances insulin secretion.
- Reduced postprandial glucose spikes and improved muscle sugar uptake.
- It acts as a powerful antioxidant and anti-inflammatory agent.
- It contains high soluble fiber that slows sugar absorption in the stomach. It also inhibits enzymes like alpha-amylase, which prevents the rapid breakdown of starch into sugar.
- Promotes the movement of GLUT4 transporters to the cell surface, allowing muscles to absorb glucose more efficiently.

MECHANISM OF ACTION

Ginseng extract

Ginseng utilizes ginsenosides to activate the AMPK pathway, which shifts cellular metabolism toward burning glucose and protects pancreatic beta cells from oxidative damage. It increases GLUT4 transporter activity and inhibits hepatic enzymes to prevent the liver from overproducing glucose.

Vilva extract

Vilva extract acts as a concentrated pancreatic stimulant that regenerates insulin-producing cells and blocks digestive enzymes from rapidly releasing sugar into the blood. It triggers insulin release through the SUR1 receptor pathway and inhibits hepatic gluconeogenesis to prevent the liver from dumping excess sugar during the night.

Berberine extract

Berberine extract acts as a potent AMPK activator that shifts cellular metabolism from energy storage to active glucose and fat burning. It increases the density of insulin receptors and GLUT4 transporters on cell surfaces while inhibiting the PCSK9 protein to lower LDL cholesterol.

Ginkgo biloba extract

Ginkgo Biloba functions as a natural blood-thinning and vasodilating agent by inhibiting Platelet Activating Factor (PAF) and boosting nitric oxide levels. It activates the eNOS pathway for better micro-circulation and stabilizes mitochondrial function to protect neurons from oxidative stress. Protection against diabetic nerve and eye complications.

Brahmi extract

Brahmi extract utilizes bacosides to stimulate BDNF production for neuron repair and provides potent antioxidant defense against sugar-induced brain fog. It activates the CREB signaling pathway to enhance memory and stabilizes the HPA axis to lower cortisol-driven blood sugar spikes.

Fenugreek extract

Fenugreek extract utilizes 4-hydroxyisoleucine to stimulate glucose-dependent insulin secretion and enhances the sensitivity of insulin receptors on muscle cells. It activates the IRS-1/PI3K signaling pathway to increase GLUT4 transporter activity and inhibits starch-digesting enzymes to prevent post-meal sugar spikes.



BENEFITS

- It contains L-Dopa will increase dopamine levels are linked to increased sexual interest and pleasure.
- The adaptogens that lower cortisol and reduce oxidative stress
- These act as precursors to Nitric Oxide, a signaling molecule that causes vasodilation
- It supports mitochondrial energy and improve the brain's response to sexual stimuli and overall stamina.
- These are adaptogens that modulate the Hypothalamic-Pituitary-Adrenal (HPA) axis.

MECHANISM OF ACTION

Liposomal Tongkat Ali

Quassinoids are enhance bioavailable testosterone by stimulating the HPG axis and reducing sex hormone-binding globulin. Triggering GnRH and LH release to signal testicular Leydig cells for testosterone synthesis from cholesterol. These actions increase usable testosterone levels, significantly improving libido and erectile function.

Lipo mucuna

Mucuna is maintain erectile function by promoting penile vasodilation and smooth muscle relaxation. Stimulating nNOS / eNOS to increase nitric oxide production and inhibiting Rho-kinase 2 to prevent vasoconstriction. Sustained blood flow to erectile tissues, which preserves long-term erectile health and enhances libido.

Lipo Arginine

Support erectile function as the primary precursor for nitric oxide-mediated vasodilation. It activates guanylate cyclase to increase cGMP, relaxing smooth muscle and dilating penile arteries to enhance blood inflow. Blood to maintain a firm erection.

Lipo nitrate

Enhance sexual performance by improving mitochondrial efficiency and promoting massive erectile blood influx. Utilizes a reductive pathway where oral bacteria and enzymes convert nitrate into nitrite and subsequently into bioactive nitric oxide. Nitric oxide signals smooth muscle relaxation, optimizing oxygen utilization and facilitating the blood flow for erections.

Lipo zinc

Optimize male sexual health by maintaining the testosterone-estrogen balance and catalyzing androgen synthesis. It involves acting as a natural aromatase inhibitor to block estrogen conversion and serving as a co-factor for 17 β -hydroxysteroid dehydrogenase. Preserve high testosterone levels to drive libido and ensure high-quality erectile function.



BENEFITS

- It act as natural diuretic, flushes excess waste, fluids through increased urination. It Prevents crystal formation and supports diuretic action.
- It helps prevent the accumulation of nitrogenous substances like urea and creatinine by shielding the renal tubules from toxins.
- Inhibit inflammatory pathways in the kidney tissues and prevent further damage to the nephrons. Reduce the inflammation and boost absorption.
- Its rich in antioxidants that neutralize free radicals.

MECHANISM OF ACTION

Dandelion root extract

Dandelion flavonoids are hypothesized to protect nephrons by inhibiting the NF- κ B pathway to reduce renal inflammation and oxidative stress. The method utilizes natural diuresis to increase urinary frequency and prevent creatinine reabsorption within the proximal convoluted tubules. It enhanced excretion of metabolic waste and the preservation of kidney integrity through optimized filtration and clearance.

Patharchatta extract

It improve renal function by modulating Nrf2 and NF- κ B pathways to suppress oxidative stress and inflammation. The method increases renal blood flow and GFR while inhibiting creatine kinase activity to reduce systemic creatinine production. It enhanced glomerular filtration and improved kidney performance through reduced metabolic waste and tissue damage.

Tribulus extract

Tribulus protect renal epithelial cells and improve waste clearance by restoring antioxidant enzyme activities. It involves reducing MDA levels and lipid peroxidation to prevent the accumulation of nitrogenous wastes in the blood. Increasing urinary clearance of metabolic waste products, including creatinine, urea, and uric acid.

Curcumin extract

Reduce creatinine and protect against kidney injury by mitigating oxidative stress and inflammation. The mechanism involves activating the Nrf2-Keap1 antioxidant pathway and inhibiting proinflammatory NF- κ B and TGF- β signaling. These synergistic actions enhance renal function and provide potent renoprotection against pathological damage.

Piperine extract

It acts as a bioenhancer by inhibiting drug-metabolizing enzymes (CYP3A4, P-glycoprotein) in the liver and intestines, improving the efficacy of combined therapies.

Keezhanelli extract

Restore renal filtration and waste clearance by mitigating nephrotoxicity and tubular damage. By inducing mild diuresis and restoring membrane-bound ATPase functions within the renal proximal tubules and glomeruli. It maintained creatinine clearance and reduced blood urea nitrogen through enhanced filtration and metabolic waste elimination.

Astragalus extract

Improve creatinine clearance by inhibiting renal fibrosis and inflammation to preserve glomerular and tubular integrity. The mechanism involves restoring podocyte morphology and cytoskeleton structure via Astragaloside IV and enhancing proximal tubular cell viability. Effectively restoring the kidney's filtration capacity.



BENEFITS

- It raises dopamine in the brain will increase sexual desire .It increase libido, improve focus and better motor control.
- It increase Nitric Oxide in the body will relaxes your blood vessels, allowing more blood to flow create and keep an erection.
- It lowering stress and anxiety.
- It naturally increases testosterone and responsible for male vitality and sexual performance.
- It helps combat fatigue and improves your overall staying power and physical stamina.

MECHANISM OF ACTION

Ashwagandha extract

It is an adaptogen that lowers cortisol levels and reduces oxidative stress.It stimulates the HPG axis to increase the secretion of Luteinizing Hormone, which directly prompts the Leydig cells to produce more testosterone. It enhances libido and erection function.

Ginseng extract

Ginseng acts as a direct vasodilator by increasing the synthesis and release of Nitric Oxide from endothelial cells and relaxes the smooth muscle of the corpus cavernosum.It improves erectile rigidity and boosting libido through stimulation of the central nervous system.

Shilajit extract

Shilajit serves as a mitochondrial booster and antioxidant.stimulates Leydig cells.It improves long-term sexual stamina, libido, and erectile quality by addressing both hormonal deficiency and cellular fatigu

Tongkat Ali Extract

Tongkat Ali primarily by reducing Sex Hormone-Binding Globulin (SHBG) levels. It stimulates the CYP17 enzyme in the Leydig cells to accelerate steroidogenesis. Improved libido, firmer erections, and increased muscle recovery by maximizing the body's own bioavailable testosterone.

Beetroot extract

Beetroot extract have nitrates that the body converts into Nitric Oxide (NO), a primary signaling molecule for vasodilation. Trigger the NO-cGMP pathway. Relaxes the smooth muscle tissue in the penis to allow for increased blood flow.

Mucuna extract

Mucuna acts as a direct precursor to Dopamine and physically suppresses the hormone Prolactin. It significantly boosts libido and reduces the refractory period, making it easier to achieve and repeat erections.

L Arginine

L-Arginine is a semi - essential amino acid that serves as the building block for the body's primary erection molecule. It is converted by the enzyme Nitric Oxide Synthase into L-Citrulline and NO, which then triggers the cGMP pathway to relax smooth muscle tissue.

Zinc

Zinc is the fundamental mineral backbone for male reproductive health.Zinc acts as a metabolic catalyst and a potent aromatase inhibitor.Zinc helps the pituitary gland release Luteinizing Hormone (LH),the testes to produce testosterone.



BENEFITS

- It contains beta-glucans that prime your immune cells to better detect and fight off viruses and bacteria.
- Support liver function and promote natural detoxification, helping the body filter out metabolic waste.
- It boost the production of ATP (cellular fuel), providing a natural energy.
- It increases the aerobic capacity and physical endurance.
- Adaptogens to help the body maintain homeostasis during periods of physical or mental stress.

MECHANISM OF ACTION

Cordyceps Militris Extract

Cordycepin to boost cellular energy (ATP) production and increases nitric oxide levels to optimize oxygen delivery to the brain and muscles. It activates the AMPK metabolic pathway for energy and the StAR protein in the testes to naturally enhance steroidogenesis and testosterone levels. Increase physical endurance, reduce fatigue, improve respiratory function, and a natural boost in libido and hormonal vitality.

Ganoderma Mushroom Extract

Ganoderma lucidum acts as a potent immunomodulator and 5- α -reductase inhibitor using its unique triterpenes and beta-glucan polysaccharides. It activates the Dectin-1 receptor for immune balance and stabilizes the HPA axis to lower cortisol and improve the quality of sleep. Enhance immune resistance, improve cardiovascular health, and a calm, resilient nervous system.

Shiitake Mushroom Extract

Shiitake utilizes the compound eritadenine to accelerate cholesterol metabolism and the polysaccharide lentinan to enhance the activity of T-lymphocytes and Natural Killer (NK) cells. Improve heart health (lower LDL), stronger resistance against viral infections, and reduce systemic inflammation.



BENEFITS

- Rich in soluble fibers and saponins. It prevents cholesterol from being absorbed into your bloodstream and forces the body to eliminate them.
- Activate metabolic pathways (like AMPK) that help the body burn fats more efficiently and clear circulating triglycerides and prevent fat from accumulating in the arteries.
- It contains powerful anti-inflammatories that prevent LDL cholesterol from becoming oxidized. Physical stamina.

MECHANISM OF ACTION

Fenugreek extract

Lower triglycerides and LDL cholesterol through synergistic fiber and saponin-mediated metabolic pathways. Galactomannan forms an intestinal gel to block dietary absorption and saponins inhibit the HMG-CoA reductase enzyme. Reduced cholesterol levels by facilitating bile acid excretion and limiting the body's internal production of lipids.

Ginger Extract

Ginger reduces systemic lipids and enhances thermogenesis through the modulation of hepatic metabolic enzymes. Stimulating cholesterol-7 α -hydroxylase for biliary excretion and activating PPAR-alpha to trigger mitochondrial fatty acid beta-oxidation. Reduced serum cholesterol and LDL levels by converting triglycerides into accessible metabolic fuel.

Ginseng Extract

Inhibit fat storage and promote lipid oxidation by modulating cellular energy signaling pathways. Activating AMPK via increased AMP:ATP ratios and suppressing SREBP-1c to block hepatic triglyceride synthesis. Metabolic shift that halts fat production and triggers the burning of lipids for energy.

Cinnamon Extract

Cinnamate inhibits HMG-CoA Reductase to reduce cholesterol synthesis and activates Lipoprotein Lipase for triglyceride breakdown. Reduced internal LDL production and the conversion of fats into free fatty acids for muscle energy.

Curcumin Extract

Curcumin helps the body eliminate cholesterol out through the digestive system. Curcumin stimulates the Cholesterol 7- α hydroxylase (CYP7A1) enzyme. It converts cholesterol into bile acids. Bile is moved into the intestines and eventually excreted from the body.

Guggul extract

Guggul helps transport cholesterol from arteries to the liver for breakdown and removal. Guggul increases the activation of the Bile Salt Export Pump (BSEP). Reducing inflammation (NF- κ B suppression), keeping blood vessels smooth, and lowering triglyceride buildup.



BENEFITS

- It plays a role in regulating the sebaceous glands, which produce the skin's natural oil (sebum).
- It helps produce keratin, the main protein that makes your hair, nails, and skin strong.
- It turns Food into cellular energy (ATP) to fast growth of hair and nails cell.
- Biotin acts as a catalyst in the synthesis of amino acids that form these keratin fibers and strengthens the Hair strand and nails plates.

MECHANISM OF ACTION

BIOTIN

- Biotin is a water-soluble coenzyme that acts as a Building block for the proteins that make up your external barriers. Biotin involves a chemical process called Carboxylation.
- Biotin provides the energy to build the structural protein called keratine. Enzymes are essential for the metabolism of amino acids like leucine, isoleucine, and valine. It stimulates the production of keratinocytes. Increases the infrastructure of the hair shaft and the thickness of the nail plate, reducing brittleness and splitting.
- Biotin act as fatty acid synthesis. The production of long-chain fatty acids and the skin produces enough natural sebum and structural lipids. Activating carboxylase enzymes to produce long-chain lipids, resulting in hydrated, smooth skin and improved membrane integrity.



BENEFITS

- Bioactive compounds that help break down calcium oxalate stones into smaller pieces and pass through the urinary tract.
- It act as Natural diuretics. This helps flush out small stones and prevents minerals from sitting in the kidneys to crystallize.
- Anti-inflammatory and antispasmodic support and relax the smooth muscles of the urinary tract
- The antimicrobial properties that help prevent secondary urinary tract infections.
- Cleanses and detoxifies the kidneys to keep them functioning properly.

MECHANISM OF ACTION

Varuna Extract

Varuna exerts lithotriptic and diuretic effects to dissolve calcium-based stones and enhance urinary excretion for clearance. Phytochemicals like lupeol, saponins, and triterpenoids inhibit stone-forming enzymes, reduce oxalate synthesis, and facilitate ureteral muscle relaxation. The treatment results in painless stone passage and improved renal health via strong antioxidant, anti-inflammatory, and cytoprotective activities.

Keezhanelli extract

Phyllanthus niruri utilize bioactive lignans, phyllanthin and hypophyllanthin, clear kidney stones through potent anti-lithogenic activity. The extract increases urinary glycosaminoglycans to block crystal adhesion and modulates metabolic pathways for dissolution. This dual mechanism inhibits calcium oxalate crystallization and prevents crystal aggregation into large, problematic stones.

Patharchatta extract

Patharchatta bioactives, including bufadienolides and organic acids, are hypothesized to fragment and dissolve calcium oxalate crystals. The method involves organic acid chelation, increased diuresis, and urinary alkalization to facilitate the flushing of stone particles. By protecting the renal tubular epithelium from oxidative stress prevents crystal adhesion and stone aggregation.

Dandelion root extract

It is hypothesized to prevent calcium oxalate stones by acting as a detoxifying agent and increasing urinary solubility. Increasing glomerular filtration and urinary potassium levels while stimulating hepatic and gallbladder waste filtration pathways. Forming soluble potassium oxalate prevents insoluble crystal development, facilitating toxin clearance without depleting the body of essential electrolytes.

Ginger extract

Gingerols and shogaols prevent renal damage and stone formation via anti-inflammatory and diuretic pathways. The bioactives neutralize free radicals, suppress inflammatory markers like TNF- α , and increase urine output to flush micro-crystals. This nephroprotective action preserves renal tissue integrity and facilitates the effective clearance of crystal precursors from the urinary tract.

Black cumin seed extract

Thymoquinone is hypothesized to protect renal cells by boosting antioxidant enzymes and inhibiting inflammatory signaling pathways. It involves increasing SOD and catalase activity while suppressing NF- κ B to target oxidative stress and chronic inflammation. Prevented kidney cell damage, reduced inflammation from existing stones, and the inhibition of secondary urinary infections.



BENEFITS

- Rich in dietary nitrates that convert into nitric oxide(NO) in the body and relaxes the smooth muscles of blood vessel.
- Bioactive compounds like allicin that help inhibit the Angiotensin - Converting Enzyme (ACE).
- It strengthens the cardiac muscles and helps the heart pump blood more effectively with less strain on the arterial walls
- Prevent spikes in blood pressure caused by the fight or flight response.
- It Help the body flush out excess salt and water.
- High in antioxidants that protect the delicate lining of the blood vessels (the endothelium) from oxidative damage.

MECHANISM OF ACTION

Beetroot extract

Beetroot extract lower blood pressure by a potent precursor for the nitrate-nitrite-nitric oxide (NO) vasodilatory pathway. Sequential reduction of dietary nitrates into bioactive nitric oxide by oral bacteria and systemic enzymes to relax vascular smooth muscles. Significant reductions in systolic and diastolic blood pressure through improved endothelial function and decreased systemic vascular resistance.

Garlic extract

It act as natural vasodilator through the nitric oxide and hydrogen sulfide pathways. Inhibiting the Angiotensin - Converting Enzyme (ACE) and stimulating gasotransmitter production to relax vascular smooth muscle. decreasing peripheral vascular resistance and improving arterial elasticity.

Bhrami extract

Reduce blood pressure by enhancing endothelial nitric oxide release and modulating vascular calcium channels. Activating the eNOS/NO signaling pathway for vasodilation and inhibiting extracellular calcium influx into vascular smooth muscles. improved microvascular flow on systemic blood pressure.

Arjuna extract

Antioxidant constituents like arjunolic acid and flavonoids. Enhancing endothelial nitric oxide synthesis and improving vascular relaxation to reduce peripheral resistance and systemic load. Improved cardiac efficiency.



BENEFITS

- The cells convert glucose and fats into energy more efficiently, supporting healthy blood sugar and lipid levels.
- It helps reduce cellular inflammation and promotes tissue renewal. The senolytic property will remove of aging cells and make new ones.
- It provide strong antioxidant defense, neutralizing free radicals that would otherwise damage DNA and mitochondria.
- Maintain the structure and fluidity of cells.

MECHANISM OF ACTION

Berberine HCL

Berberine functions as a metabolic regulator by activating the AMPK pathway, which shift cellular metabolism from energy storage to energy burning. It increases the expression of GLUT4 glucose transporters and inhibits the PCSK9 protein in the liver to simultaneously lower blood sugar and LDL cholesterol.

Quercetin

Quercetin functions as a zinc ionophore and a senolytic agent. It activates the SIRT1 longevity pathway and the NRF2 antioxidant response, while simultaneously stabilizing mast cells to prevent the release of inflammatory histamines.

Bromelain

Bromelain acts as a proteolytic enzyme that dissolves fibrin and suppresses pro-inflammatory prostaglandins to reduce systemic swelling and pain. It inhibits the COX-2 enzyme and modulates the kinin system to lower bradykinin levels, while simultaneously increasing cell membrane permeability for other nutrients. Recovery from tissue injury, reduced sinus congestion

Phospholipids PC

PC 65 provides the essential raw material to repair and fluidize cell membranes while acting as a vital precursor for the memory-boosting neurotransmitter Acetylcholine. It facilitates the transport of fats out of the liver. Supports the methylation cycle to reduce toxic homocysteine levels in the blood. It improve cognitive function, enhanced liver detoxification, and optimize cellular communication.

Cayenne Pepper Extract

Cayenne Pepper utilizes capsaicin to activate TRPV1 receptors, triggering a thermogenic response that increases metabolic rate and fat burning. It stimulates the release of catecholamines to mobilize energy and induces nitric oxide production for immediate, body-wide vasodilation. It enhance blood flow, improve cardiovascular health, reduce systemic pain, and a significant boost in metabolic efficiency.



BENEFITS

- Rich in natural antioxidants, the formula shields your vital pancreatic cells from damage.
- The ingredients help pancreas work more efficiently, encouraging it to release the right amount of insulin.
- It slows down how fast your body absorbs sugar and carbs from your food.
- The compound inhibit the digestive enzyme like α -Amylase and α -glucosidase, preventing sudden blood sugar spikes after meals.
- It trigger the release of insulin to help lower circulating blood glucose levels.

MECHANISM OF ACTION

Methi Leaf extract

Methi leaves inhibit carbohydrate-digesting enzymes and provide high soluble fiber to slow down the absorption of glucose. It activates the PI3K/Akt signaling pathway to increase GLUT4 transporter activity. Lower fasting and postprandial (after-meal) blood sugar levels while reducing the WORK on the pancreas.

Blackjamun extract

Black Jamun contains jamboline and jambosine, inhibit the enzymatic breakdown of starch into sugar. It activates the PPAR- γ receptor and down regulates hepatic glucose production while protecting pancreatic beta cells from oxidative damage. Manage diabetic symptoms like frequent urination and thirst.

Garlic extract

Garlic extract provides organosulfur compounds like Allicin that increase the bioavailability of insulin and protect pancreatic cells from oxidative stress. It activates the AMPK signaling pathway, it reduces fasting blood sugar, improves HbA1c levels, and protection against diabetic heart and nerve complications.

Betel leaf extract

Betel leaf extract inhibits key digestive enzymes to slow sugar absorption and protects pancreatic cells. It activates the PI3K/Akt signaling pathway to enhance glucose uptake in peripheral tissues and promotes the storage of glucose as glycogen in the liver. Maintain steady post-meal blood sugar levels, improves insulin sensitivity,

Vilva Leaf extract

Vilva leaf acts as a natural pancreatic stimulant. It enhances cellular glucose uptake via the GLUT4 transporter and suppresses hepatic gluconeogenesis to prevent the liver from overproducing sugar.

Ashwagandha extract

Ashwagandha extract functions as a metabolic adaptogen. It reduces hepatic gluconeogenesis (sugar production in the liver) and triggers the translocation of GLUT4 transporters in muscle tissue. Protection against stress-induced glycemic spikes.

Fenugreek extract

Fenugreek provides a high-viscosity fiber barrier (galactomannan) that slows sugar absorption and contains 4-hydroxyisoleucine to stimulate glucose-dependent insulin release. Activating the IRS-1 signaling pathway lowers HbA1c levels over time, and improves the body's natural insulin response without causing hypoglycemia.



BENEFITS

- Functions as a natural diuretic by increasing urine volume and frequency. Flushes out toxins and reduces water retention.
- Inhibits the enzyme glycolate oxidase, reducing the body's production of oxalates. Prevents the formation of calcium oxalate stones.
- It acts as a potent antioxidant that improves microcirculation and reduces oxidative stress.
- It interferes with the stages of stone formation of crystal growth and Helps to break down kidney stones.
- Exhibits lithotriptic properties, helping to disintegrate urinary calculi.
- Aids in the natural expulsion of small stones

MECHANISM OF ACTION

Turmeric extract

Promote renal repair by activating the Nrf2-Keap1 antioxidant system and suppressing pro-inflammatory signaling. Inducing cytoprotective enzymes via Keap1-Nrf2 inactivation and inhibiting NF- κ B and TGF- β pathways to prevent fibrosis. Reduce albuminuria and oxidative stress in body.

Keezhanalli extract

It Activating the Nrf2 pathway, increases antioxidant enzymes to repair oxidative damage and protect renal cells. Anti-Apoptotic activity that decreases programmed cell death, allowing for better survival of tubular epithelium.

Dandelion root extract

Maintain renal homeostasis and support cell survival by neutralizing oxidative stress and inhibiting pro-inflammatory signaling pathways. Significantly lowers serum creatinine and urea levels, protects against toxin-induced proximal tubule necrosis, and preserves renal structural integrity.

Piperine

Piperine inhibits specific urate transporters (URAT1/GLUT9) in the kidney. Lowers uric acid levels to prevent crystal-induced injury. It enhance the bio availability of components.

Patharchatta extract

It supports kidney health by dissolving calcium oxalate stones and shielding kidney tissues from damage using organic acids and flavonoids through natural chelation, increased urine production, and alkalinity, helping flush out stone fragments.

Varuna extract

Lupeol to activate the Nrf2 pathway, which restores antioxidant enzymes (SOD, CAT) and inhibits NF- κ B to prevent structural damage and collagen deposition. Restore renal function and promote cellular repair by neutralizing oxidative stress

Tribulus extract

Tribulus inhibits the NF- κ B (Nuclear Factor-kappa B) pathway. It essentially keeps the nephrons flexible. Tribulus contains saponins that activate the Nrf2.kidney cells are repair and regenerate.



BENEFITS

- Increases intracellular Ca^{2+} and strengthens heart muscle contraction. Improved cardiac output and stronger heart pumping.
- It promotes the release of Nitric Oxide, which signals the blood vessels to relax and widen.
- Eliminate excess fats from the bloodstream and reduce the inflammation that leads to atherosclerosis
- It is a potent anti-inflammatory that prevents the oxidation of LDL cholesterol.
- It Provides Alpha-Linolenic Acid (ALA) to reduce platelet aggregation.
- It Helps prevent blood clots and reduces arterial inflammation

MECHANISM OF ACTION

Flax Seed

Flaxseed is a nutritional powerhouse, its high concentration of alpha-linolenic acid (ALA), and soluble fiber. ALA is converted into eicosapentaenoic acid (EPA), inhibits the production of pro-inflammatory cytokines. Reduces vascular inflammation and stabilizes atherosclerotic plaques. Modulate the Renin - Angiotensin System (RAS) and increase the bio availability of nitric oxide, promotes vasodilation.

Arjuna extract

Arjuna act as a natural cardiogenic that strengthens the heart muscle. Rich concentration of casuarinin, arjunolic acid (triterpenoids), and flavonoids. Increasing the efficiency of intracellular calcium in the myocardium. Stronger contractions without increasing heart rate.

Guggul

Guggul act as primarily for its ability to manage lipid levels and combat atherosclerosis. Guggul are guggulsterones (E- and Z-isomers). inhibits the oxidation of LDL cholesterol. oxidized LDL is a primary driver of arterial plaque formation, this pathway directly slows the progression of atherosclerosis.

Ginkgo biloba

Ginkgo biloba potent antioxidant properties and its ability to improve blood flow. Release of Nitric Oxide (NO) from the Blood vessel. NO diffuses into smooth muscle cells, activate the guanylyl cyclase. increases levels of cyclic GMP. calcium desensitization and relaxation of the vessel walls (Vasodilation).

Cinnamon

Cinnamaldehyde, the primary bioactive compound mechanism in metabolic regulation and endothelial protection. Inhibition of the NF- κ B inflammatory pathway. Stops the expression of adhesion molecules that normally stop passing fats and white blood cells to start a plaque. Reduced formation of fatty substance in the arteries.

Brahmi

Brahmi helps maintain a steady heart rhythm by regulating how calcium moves in and out of heart cells. Modulation of Ca^{2+} ATPase and calcium channels. It prevents irregular heartbeats (arrhythmias) and ensures the heart muscle contracts and relaxes with proper timing.

Ashwagandha

Withanolides cross the blood-brain barrier and mimic GABA. Signals the hypothalamus to reduce the secretion of Corticotropin-Releasing Hormone (CRH). Lowered heart rate and reduced systemic blood pressure, protecting the heart from sympathetic overdrive.

Curcumin extract

Anti-inflammatory property

peprine

It increases the bioavailability of allowing the heart to receive a therapeutic dose.



BENEFITS

- Stabilizes hepatocyte membranes and stimulates RNA polymerase I. Protects liver cells from toxin.
- Acts as a direct precursor to Glutathione synthesis. Boosts the liver's primary antioxidant to neutralize harmful free radicals and toxins.
- Inhibits pro-inflammatory cytokines and Reduces liver inflammation will help prevent fatty acid buildup.
- Boosts the liver's primary antioxidant to neutralize harmful free radicals and toxins.
- It helps the liver convert cholesterol into bile acids, preventing stagnation and sludge in the gallbladder and liver ducts.

MECHANISM OF ACTION

Liposomal silymarine

Silymarin binds to the outer membrane of hepatocytes. It alters the structure of the cell membrane so that toxins (like alcohol, pollutants, or certain medications) cannot bind to or penetrate the cell.

Silymarine

Acts as a free radical scavenger. It inhibits the NF- κ B signaling pathway, stimulates RNA polymerase I in hepatocytes, which increases protein synthesis to help the liver regenerate damaged tissue.

N Acetyl I-cysteine

It Acts as a direct precursor to Glutathione (GSH), Increased GSH levels allow the liver to neutralize reactive oxygen species (ROS) and conjugate toxins (Phase II detoxification) for safe excretion.

CANCER NUTRACEUTICALS

Nutraceuticals are dietary supplements or functional foods that may offer additional health benefits beyond basic nutrition, particularly in cancer prevention and management. Some, like Curry leaves Extract, Moringa leaves Extract, curcumin and green tea extract, have shown potential in reducing inflammation and inhibiting cancer cell growth.

HERBAL SUPPLEMENTS

Herbal supplements are natural products derived from plants used to support health and treat various conditions. They often contain extracts or powders from herbs like echinacea, ginseng, or ginger and can offer benefits such as immune support or anti-inflammatory effects.

NATURAL COLOURANTS

Natural colorants are pigments derived from plant, mineral, or animal sources used to add color to foods, cosmetics, and textiles. They offer an alternative to synthetic dyes and can provide a range of colors, such as beetroot for red or turmeric for yellow. While they are often considered safer and more environmentally friendly, their stability and intensity can vary compared to synthetic options.

LIPOSOMAL STRIPS

Liposomal strips are thin, dissolvable strips that deliver active ingredients through liposomes, which are tiny lipid-based vesicles designed to encapsulate and protect the substances. These liposomes enhance the absorption and bioavailability of the ingredients, allowing for efficient delivery to the bloodstream or targeted areas.

WATER SOLUBLE PROTEINS

Water-soluble proteins dissolve in water, forming solutions rather than suspensions, which allows them to be easily absorbed and utilized in various biological processes. They include essential proteins like albumin, found in blood plasma, and enzymes involved in digestion and metabolism. Due to their solubility, these proteins play crucial roles in maintaining cellular functions, transporting molecules, and regulating biochemical reactions.



Towards Natural Wellness

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