



NANO-AYURVEDA

Introducing the Future of Medicine

Powered by Green Nano Technology

KADAMBA
GLOBAL FIRST NANO AYURVEDIC MOLECULES

BRIDGING THE ANCIENT WISDOM WITH MODERN INNOVATION

Imagine a world where healing transcends conventional medicines, embracing the wisdom of ancient traditions coupled with the power of cutting-edge science. This vision becomes reality with Nano-Ayurveda, a revolutionary medical approach that redefines healthcare by blending Ayurveda's time-tested principles with green nanotechnology.

Kadamba unveils the transformative potential of Nano-Ayurveda, showcasing its ability to address a plethora of health concerns while prioritizing patient's well-being and offering holistic care. Dive into the world of powerful nanoparticles infused with herbal wisdom, where nature's bounty meets scientific advancement, paving the way for a new era in medical treatments.

THE ESSENCE OF NANO-AYURVEDA

At its core Nano-Ayurveda revolves around harnessing the potent synergy between two distinct yet complementary philosophies.

Ancient Ayurvedic Knowledge: Rooted in millennia of accumulated wisdom, Ayurveda emphasizes harmony between mind, body, and spirit. It utilizes the holistic approach of balancing doshas (energies) within the body to achieve optimal health and well-being.

Green Nanotechnology: This cutting-edge science manipulates matter at the nanoscale, creating microscopic particles with unique properties. In Nano-Ayurveda, these nanoparticles serve as intelligent delivery systems, encapsulating natural, therapeutic compounds extracted from potent herbs.

By merging these two powerful pillars, Nano-Ayurveda unlocks a multitude of benefits

ENHANCED BIOAVAILABILITY

Nanoparticles facilitate efficient absorption of herbal medicines, maximizing their therapeutic potential.

TARGETED DELIVERY

They navigate through the body, directing herbal extracts to specific tissues and cells where they're needed most, minimizing side effects.

GREATER EFFICACY

Compared to conventional herbal remedies, Nano-Ayurvedic treatments showcase enhanced potency, leading to faster and more pronounced results

PIONEER IN NANO-AYURVEDIC MEDICINE

01

Kadamba stands as a leading force in the realm of Nano-Ayurveda. Driven by a commitment to harnessing the healing power of nature through scientific innovation, we can tirelessly dedicate ourselves to research, develop, and produce safe, effective, and accessible Nano-Ayurvedic medicines.

02

Our rigorous adherence to Ayurvedic principles ensures meticulous selection of natural ingredients and adherence to time-honoured practices throughout the production process. Additionally, we prioritize green synthesis of nanoparticles, minimizing environmental impact while upholding the essence of sustainability

EMBRACING A TAPESTRY OF HEALING SOLUTIONS

The versatility of Nano-Ayurveda extends to alleviating a wide spectrum of health concerns

- 01 Chronic ailments: Experience potent relief from conditions like arthritis, diabetes, and chronic pain through targeted delivery of herbal remedies.
- 02 Mental well-being: Manage stress, anxiety, and sleep disturbances with gentle, side-effect-free Nano-Ayurvedic formulations.
- 03 Cancer support: Explore complementary and alternative therapies alongside conventional treatments, harnessing the potential of Nano-Ayurveda to bolster immunity and mitigate side effects.
- 04 Holistic rejuvenation: Rejuvenate your mind, body, and spirit with detoxifying programs and customized herbal regimens to achieve optimal balance and vitality.

EMBRACE THE FUTURE OF HEALING

01

Nano-Ayurveda stands as a beacon of hope, offering a paradigm shift in how we approach health and well-being. It signifies a return to nature's bounty, empowered by scientific advancement, to craft treatments that are gentle, effective, and holistic.

02

Embrace the transformative power of Nano-Ayurveda. Explore Kadamba's diverse range of solutions and embark on a journey towards revitalizing your health and discovering your true potential. Contact us today to learn more about this future of medicine and unlock the healing power within.

A TESTAMENT TO SAFETY & EFFICACY

At Kadamba, a patient's well-being is our paramount concern. Our Nano-Ayurvedic medicines undergo rigorous toxicological studies to ensure complete safety and absence of side effects. Additionally, clinical trials conducted by esteemed institutions showcase the efficacy of our treatments, paving the way for wider acceptance and integration into mainstream healthcare.

RASAAYANA PRINCIPLES IN AYURVEDA

The Rasaayana is a fundamental concept in Ayurveda. The ancient Indian philosopher and alchemist, "Nagarjuna" contributed significantly to the understanding and practice of Rasaayana in his Rasa-Ratnaakara, an Ancient Indian Ayurvedic text

The Rasaayana formulations aimed at promoting health, longevity, and vitality. He emphasizes the significance of using purified metals, minerals, and herbs to create potent elixirs capable of rejuvenating the body and mind. He explored the intricate processes of herbal alchemy and metallurgy to formulate potent elixirs and remedies aimed at promoting health and well-being by providing invaluable insights into the profound relationship between nature, and human health. Nagarjuna's insights into Rasaayana underscored the holistic approach, emphasizing not only physical rejuvenation but also mental clarity and spiritual harmony.

GREEN NANO TECHNOLOGY IN AYURVEDA A HOLISTIC APPROACH

Blending green nanotechnology with Rasaayana principles in Ayurveda represents a modern approach to traditional healing practices, merging ancient wisdom with cutting-edge scientific advancements.

Green nanotechnology involves the design, synthesis, and application of nano materials that are environmentally friendly and sustainable. When integrated with Rasaayana, it can enhance the efficacy, safety, and delivery of herbal and mineral formulations.

ADVANTAGEOUS OF BLENDING GREEN NANOTECHNOLOGY WITH RASAAYANA

ENHANCED BIOAVAILABILITY : Nanotechnology can improve the bioavailability of Rasaayana formulations by reducing particle size and enhancing absorption, ensuring that the active ingredients are more readily available for the body to utilize.

TARGETED DELIVERY : Nano carriers can be designed to target specific cells or tissues, allowing for precise delivery of Rasaayana compounds to their intended site of action within the body, thereby maximizing therapeutic effects and minimizing systemic side effects.

INCREASED STABILITY : Nano materials can protect Rasaayana ingredients from degradation, oxidation, and other environmental factors, prolonging shelf life and preserving potency.

REDUCED TOXICITY : Green nanotechnology focuses on using non-toxic materials and eco-friendly manufacturing processes, ensuring that Rasaayana formulations are safe for both human health and the environment.

SUSTAINABLE PRODUCTION : By incorporating sustainable nano material's and production methods, the blending of green nanotechnology with Rasaayana aligns with the principles of ecological balance and conservation espoused in Ayurveda.

SYNERGISTIC APPROACH : The integration of green nanotechnology with Rasaayana offers a synergistic approach to healthcare, harnessing the power of both ancient wisdom and modern science to promote wellness, longevity, and environmental sustainability.

KADAMBA'S UNIQUE APPROACH

Formulation of new age medicine

New-age medicines blend natural compounds with green nanotechnology, enhancing efficacy and sustainability. Using biocompatible nanoparticles for targeted delivery, they ensure safety and bioavailability paving the way for eco-conscious pharmaceutical solutions

Create your traditional ayurvedic formulations

- Creating customised medicine is the uniqueness in ayurvedic tradition. Respecting the wisdom of centuries-old ayurvedic practices using Rasaayana principles can be a deeply enriching and personalized journey.
- Ayurveda emphasizes the importance of body's signalling dynamics and adjust the formulations accordingly. Individuals are classified into three primary doshas - Vata, Pitta, and Kapha, based on their unique physical constitution.
- Understanding the patients and their existing health conditions with their specific health goals, the ayurvedic solutions will be made by selecting herbs and ingredients that harmonize the patient's overall health

Developing functional food

Developing functional foods without chemical preservatives, tailored for specific health benefits, relies on natural ingredients with inherent preservation properties can maintain food quality and extend shelf life, ensuring nutritious, and target specific safe products

Environmentally sustainable industry approach

Implementing environmentally sustainable practices in industries through green nanotechnology involves employing eco-friendly nano materials and processes and developing biodegradable nano products by minimizing environmental impact and resource consumption. Industries can achieve sustainability goals while leveraging the benefits of nanotechnology for innovation and efficiency



rajata rasayana

Silver nano particles

Phyto-chemicals blend loaded on silver nano particles

Antimicrobial Action

Microbial Balance

Possesses potent antimicrobial properties, promoting balance in microbial flora and supporting overall health. This aligns with Ayurvedic principles of combating microbial imbalances and promoting well-being

Wound Healing

Tissue Regeneration

Accelerates wound healing by promoting tissue regeneration and reducing the risk of infection, aligning with Ayurvedic principles of promoting the body's natural healing processes

Oral Health

Dental Care

Supports oral health by preventing oral infections and maintaining oral hygiene, aligning with Ayurvedic practices aimed at preserving dental health

Immunomodulation

Immune Support

Modulates immune responses, supporting the body's natural defense mechanisms and promoting resilience against infections. This aligns with Ayurvedic principles of enhancing immunity and vitality

Anti-Inflammatory Effects

Reduced Inflammation

Exhibit anti-inflammatory properties, reducing inflammation in various tissues and organs, providing relief from inflammatory conditions. This aligns with Ayurvedic principles of pacifying aggravated doshas and restoring balance

Skin Health

Skin Rejuvenation

Promotes skin health by rejuvenating skin cells, reducing inflammation, and enhancing overall skin vitality. This aligns with Ayurvedic principles of promoting healthy skin and supporting the body's natural detoxification processes

Respiratory Health

Lung Support

Support respiratory health by combating microbial infections and reducing inflammation in the respiratory tract. This aligns with Ayurvedic principles of promoting healthy respiration and supporting lung function

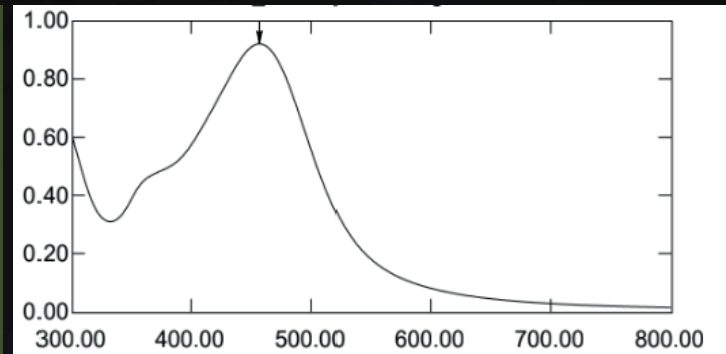
CHARACTERISTICS OF SILVER NANO PARTICLES

UV spectrum: 457 nm

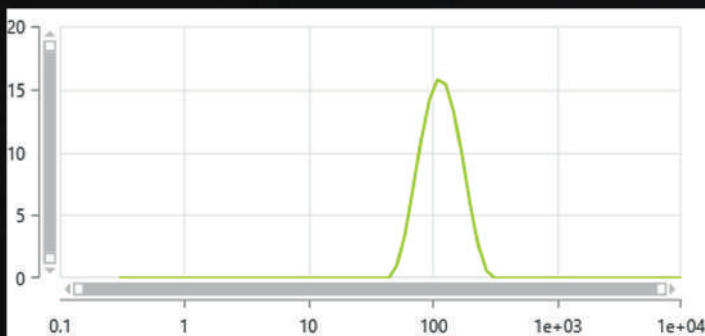
Hydrodynamic size: 98.64

PDI: 0.22

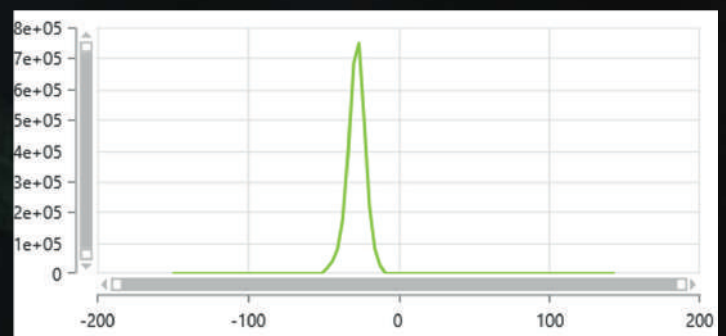
Zeta potential: -27.67 mV



UV GRAPH



SIZE GRAPH



ZETA POTENTIAL GRAPH

TOXICITY & EFFICACY OF SILVER NANO PARTICLES

Toxicity

Silver nanoparticles demonstrated excellent tolerance up to 10.0 mL/kg body weight. This indicates a high safety margin, establishing a No-Observed Adverse Effect Level (NOAEL) at the same dosage.

Efficacy

Silver nanoparticles exhibit broad-spectrum antimicrobial properties, effectively targeting Gram-positive and Gram-negative bacteria, fungi, viruses, and even multidrug-resistant bacteria such as MRSA.

Their unique physicochemical characteristics enable potent antimicrobial action, disrupting cellular processes and inhibiting growth. Additionally, silver nanoparticles demonstrate low cytotoxicity to mammalian cells, enhancing their suitability for biomedical applications.

श्वarna Rasayana

Gold nano particles

Phyto-chemicals blend loaded on gold nano particles

Cancer

DRUG DELIVERY: Acts as a carrier for potent cancer-curing agents, delivering them directly to cancer cells. This aligns with Ayurvedic principles of enhancing the potency and efficacy of medicines

TARGETING CANCER BIOMARKERS: Can be engineered to target specific biomarkers in cancer cells, minimizing damage to healthy tissues. This aligns with Ayurvedic principles of precise treatment targeting

IMMUNO-MODULATION: Modulate immune responses in the tumor microenvironment, supporting the body's natural defense mechanisms. This aligns with Ayurvedic principles of restoring balance

IMAGING AND DIAGNOSIS: In Ayurveda, gold is revered for its ability to enhance clarity and perception. Gold nanoparticles, known as "Swarna Rasayana," can be seen as enhancing imaging techniques by providing contrast, aligning with Ayurvedic principles of enhancing sensory perception for diagnosis.

HYPER-THERMIC EFFECTS: Gold nanoparticles, when activated by light, generate heat locally, which can be utilized to destroy cancer cells.

Cognitive Health

DRUG DELIVERY FOR NEUROLOGICAL DISORDERS: Facilitates the delivery of medicines across the blood-brain barrier, aiding in the treatment of neurological disorders. This aligns with Ayurvedic principles of rejuvenating the mind

NEURO-PROTECTION: Exhibits neuro-protective properties, reducing oxidative stress and inflammation in the brain. This aligns with Ayurvedic principles of promoting mental clarity and longevity

Heart-Related

CARDIAC TISSUE REGENERATION: When combined with stem cells, promotes the regeneration of cardiac tissues. This aligns with Ayurvedic principles of rejuvenating the heart

ANTI-INFLAMMATORY EFFECTS: Reduces inflammation in the cardiovascular system, benefiting patients with inflammatory heart conditions. This aligns with Ayurvedic principles of pacifying aggravated doshas

STENT COATINGS: Incorporating Swarna Rasayana into coronary stents prevents restenosis and improves long-term outcomes. This aligns with Ayurvedic principles of enhancing the strength and vitality of the heart

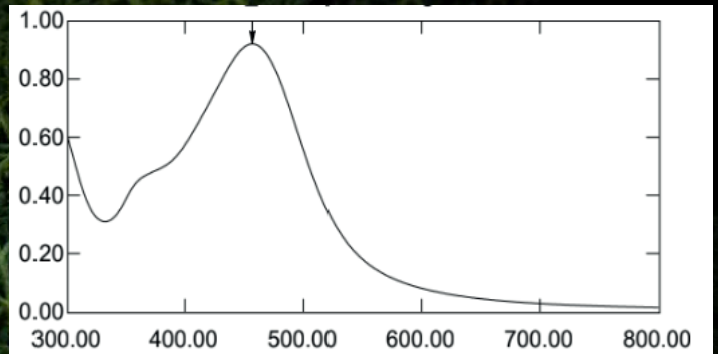
CHARACTERISTICS OF GOLD NANO PARTICLES

UV spectrum: 533nm

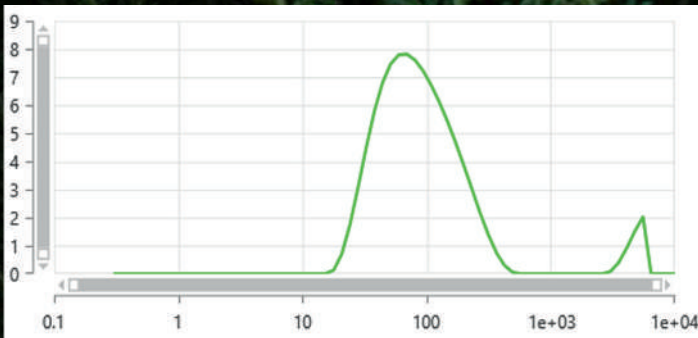
Hydrodynamic size: 69.36

PDI: 0.41

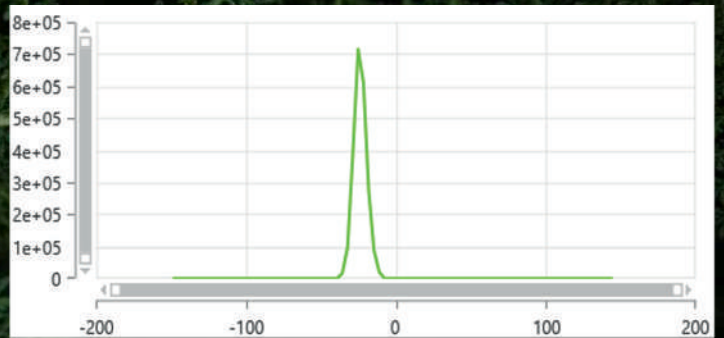
Zeta potential: -23.82 mVZ



UV GRAPH



SIZE GRAPH



ZETA POTENTIAL GRAPH

Dose metric toxicity report

PRODUCT

KADAMBA GOLD NANO PARTICLES

Toxicity Assessment

Repeated oral (gavage) administration

Experimental Dosages

Low/Mid/High Dose

Route of Administration

Oral (gavage)

Maximum Tolerated Dose

≥ 7.5 mg/kg bw/day

Conclusion

The toxicity evaluation of Kadamba-AuNP, demonstrating its safety profile in for potential use in treating inflammatory diseases, including cancer.

Efficacy

Various studies were done on multiple cancer cells compared the effectiveness of Kadamba-AuNP, with Cisplatin in treating cancer. Results showed Kadamba-AuNP to be as effective as cisplatin against various cancer cell lines while causing less harm to healthy cells.

This suggests Kadamba-AuNP could be a safer option for cancer treatment, targeting cancer cells while minimizing damage to healthy tissues.

The study highlights Kadamba-AuNP's potential as a promising cancer therapy, though more research is needed to fully understand its benefits and safety profile.

SUBJECT	BREAST CANCER	PANCREATIC CANCER	ORAL CANCER	COLON CANCER	BONE - M CANCER
INTRODUCTION	Uncontrolled cell growth, often due to genetic mutations.	Mutation induced cell growth in pancreas tissue.	Uncontrollable cell growth due to various triggers	Abnormal cell growth in colon, due to genetic factors.	Uncontrolled growth in bone marrow cells.
INCLUSION CRITERIA	Patients at different stages of breast cancer.	Patients diagnosed with pancreatic cancer.	Patients diagnosed with oral cavity malignancy.	Patients with colon cancer at different stages.	Patients with bone marrow malignancy at different stages.
OBSERVATIONS	Symptom relief, improved immune response observed.	Reduced tumour size, improved symptom management.	Reduced pain, inflammation, improved general health.	Symptom relief, improved blood cell production.	Symptom stabilization, improved general health.
CONCLUSIONS	Kadamba-AuNP effective in symptom management and immune support.	Kadamba-AuNP effective in tumour reduction and symptom management.	Kadamba-AuNP effective in pain relief and general health improvement.	Kadamba-AuNP effective in symptom relief and blood cell production.	Kadamba-AuNP effective in symptom stabilization and general health.
CONCLUSIONS	Kadamba-AuNP safe with no observed ill effects.				

tāmra raśayana

Copper nano particles

Phyto-chemicals blend loaded on gold nano particles

Neurological Health

NEUROPROTECTIVE EFFECTS: Offer neuroprotective effects, reducing oxidative stress and inflammation in the brain. This aligns with Ayurvedic principles of promoting mental clarity and longevity

Cardiovascular Support

HEART HEALTH: Support cardiovascular health by improving blood circulation and reducing the risk of cardiovascular diseases. This aligns with Ayurvedic principles of enhancing the strength and vitality of the heart

Joint Health

ARTHRITIS RELIEF: Relieving arthritis symptoms by reducing inflammation and promoting joint flexibility. This aligns with Ayurvedic principles of pacifying aggravated doshas and restoring balance

Anti-Aging

SKIN REJUVENATION: Rejuvenate the skin by stimulating collagen production and reducing the appearance of wrinkles. This aligns with Ayurvedic principles of promoting youthful vitality and longevity

Hormonal Balance

ENDOCRINE SUPPORT: Support hormonal balance by regulating hormone production and function. This aligns with Ayurvedic principles of promoting harmony within the endocrine system

Eye Health

VISION SUPPORT: Support eye health by protecting against oxidative damage and promoting vision clarity. This aligns with Ayurvedic principles of promoting ocular health and preventing eye diseases

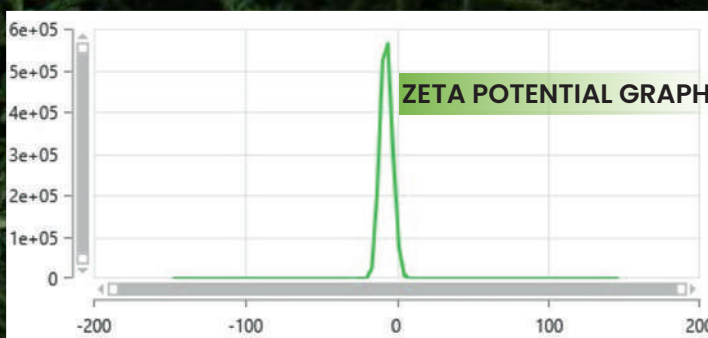
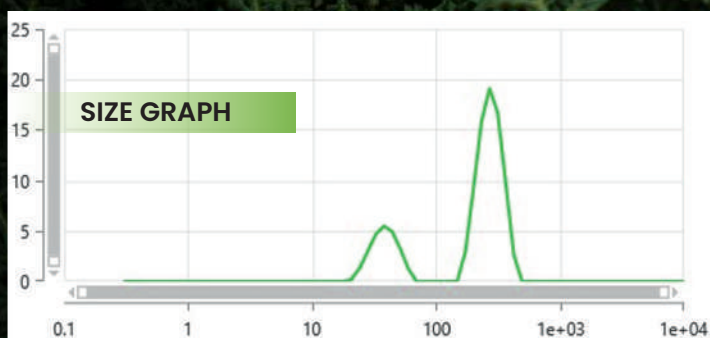
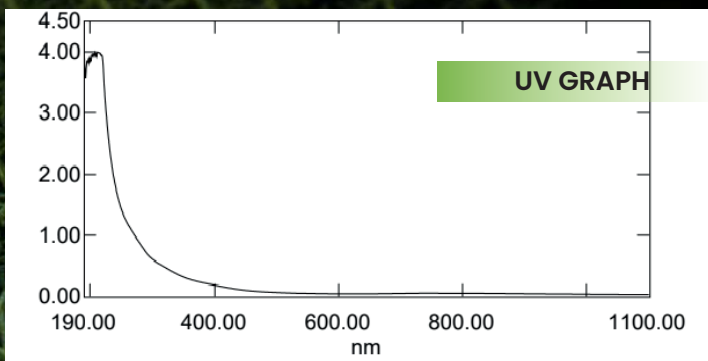
CHARACTERISTICS OF COPPER NANO PARTICLES

UV spectrum: -

Hydrodynamic size: 302.9

PDI: 0.52

Zeta potential: -7.27 mV



Loha Rasayana

Iron nano particles

Phyto-chemicals blend loaded on iron oxide nano particles

Hemoglobin Boost

BLOOD NOURISHMENT: Iron nanoparticles, or "Loha Rasayana," are revered in Ayurveda for their ability to nourish the blood and promote the production of hemoglobin. This aligns with Ayurvedic principles of supporting healthy blood formation and circulation ("Rakta Dhatu")

ANEMIA TREATMENT: Serves as a potent remedy for anemia, a condition characterized by low hemoglobin levels. By enhancing hemoglobin synthesis, iron nanoparticles help alleviate symptoms of fatigue, weakness, and pallor, restoring vitality and well-being

Immune Support

VITALITY ENHANCEMENT: Support immune function by nourishing the blood and tissues, enhancing vitality and resilience against infections. This aligns with Ayurvedic principles of boosting the body's natural defense mechanisms

Neurological Health

BRAIN REJUVENATION: Iron nanoparticles facilitate the delivery of therapeutic agents to the brain, supporting neurological health and cognitive function. This aligns with Ayurvedic principles of rejuvenating the mind ("Manasika Rasayana") and promoting mental clarity.

NEUROPROTECTIVE EFFECTS: Loha Rasayana exhibits neuroprotective properties, reducing oxidative stress and inflammation in the brain. By supporting neuronal health and function, iron nanoparticles help maintain cognitive vitality and prevent neurodegenerative disorders.

Wound Healing

TISSUE REGENERATION: Accelerate wound healing by promoting tissue regeneration and reducing the risk of infection. This aligns with Ayurvedic principles of promoting the body's natural healing processes and restoring tissue integrity.

ANTI-INFECTIVE ACTION: Possesses antimicrobial properties, preventing infection and promoting sterile wound healing. By enhancing the body's immune response and tissue repair mechanisms, iron nanoparticles support optimal wound recovery.

IRON DEFICIENCY MANAGEMENT

NUTRITIONAL SUPPORT: Offer a bioavailable source of iron, addressing nutritional deficiencies and promoting overall health and vitality. This aligns with Ayurvedic principles of enhancing nutrient absorption and supporting optimal bodily functions.

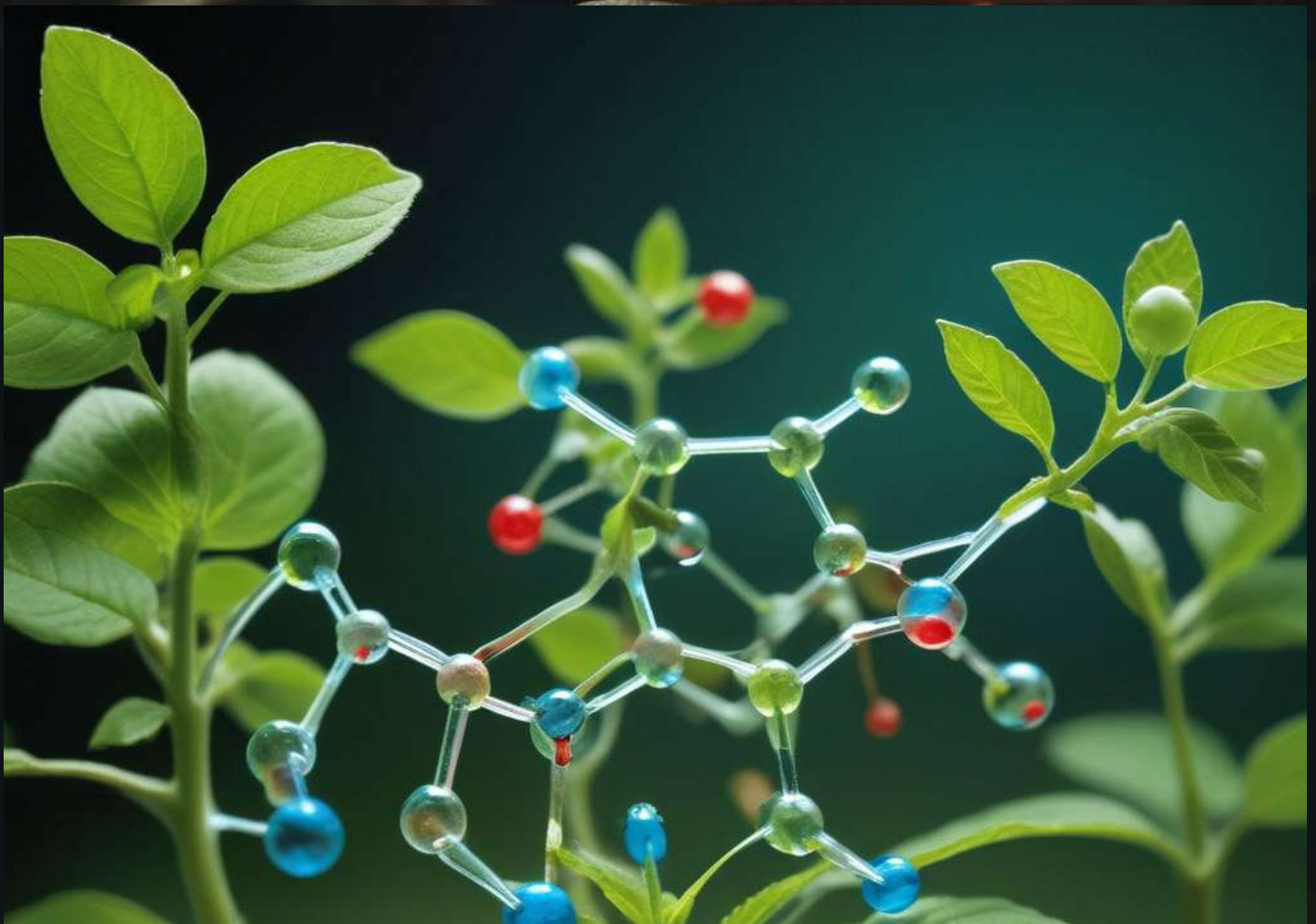
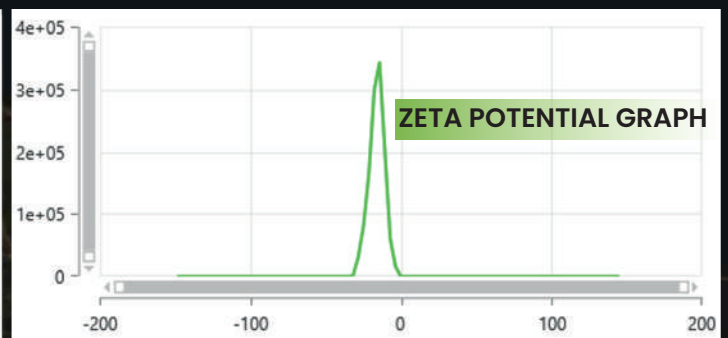
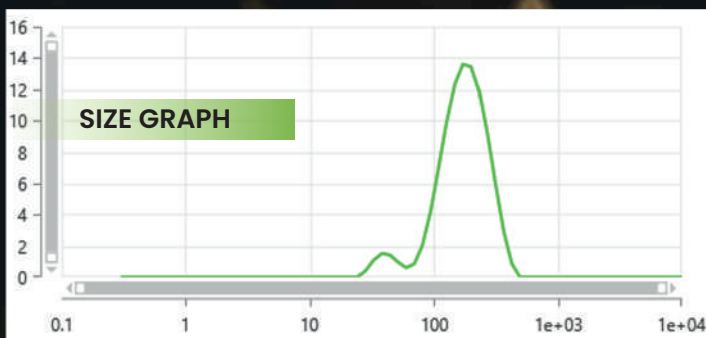
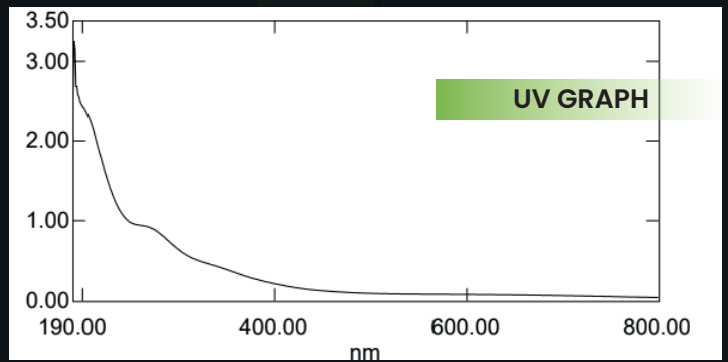
CHARACTERISTICS OF IRON NANO PARTICLES

UV spectrum: -

Hydrodynamic size: 155.6

PDI: 0.26

Zeta potential: -16.08 mV



THE PHYTOCHEMICAL COMPOUNDS EXTRACTED FROM THESE AYURVEDIC HERBS ARE ENCAPSULATED ONTO GOLD AND SILVER NANOPARTICLES AT THE NANO SCALE.

rajata rasayanam Silver nano particles



Bilva (बिल्व)
Kalamegha (कालमेघ)
Methika (मेथिक)
Jatiphala (जातिफल)
Lomajara (लोमजर)
Babunaha (बबूनह)
Soma (सोम)
Mallika (माल्लिका)
Pudina (पुदीना)
Alarka (अलर्क)
Tailapatra (तैलपत्र)
Mahabala (महाबला)
Karanja (करंज)
Kulattha (कुलत्थ)
Chanaka (चणक)
Jambu (जम्बु)
Tintidi (तिन्तिदि)
Yava (यव)
Madayantika (मदयन्तिका)
Guggulu (गुग्गुलु)
Dadima (ददिम)
Arjuna (अर्जुन)
Shigru (शिग्रु)
Ashwagandha (अश्वगंधा)

swarna rasayanam Gold nano particles



Vriksharaja (वृक्षराज)
Palanki (पलङ्कि)
Shriparni (श्रीपर्णि)
Nirgundi (निर्गुंडी)
Shallaki (शल्लकि)
Arjaka (अर्जक)
Vijaya (विजय)
Kokilaksha (कोकिलाक्ष)
Kapikacchu (कपिकच्छु)
Kurupushpa (कुरुपुष्प)
Kachnar (कचनार)
Kumari (कुमारी)
Ajamoda (अजमोद)
Bilva (बिल्व)
Rajatrasa (रजत्रास)
Dhanyaka (धन्यक)
Draksha (द्राक्षा)
Jhapa (झापा)
Shatavari (शतावरि)
Kachnar (कचनार)
Pudina (पुदीना)
Brahmi (ब्राह्मी)
Sariva (सरिवा)
Yashtimadhu (यष्टिमधु)

talpa rasayanam Copper nano particles



loha rasayanam Iron nano particles





Join our community
and discover the
transformative power
of Nano-Ayurveda.

Let us together bridge
the gap between
ancient wisdom and
modern science,
together.



Visit our website for more information and personalized consultations.

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