



NISARGA BIOTECH

SINCE 1998

www.nisargabiotech.com

Company Presentation

Devendra Soman
devendra@nisargabiotech.com
+91 955 279 4004



Our Mission & Vision



Mission

Elevating Lives through Natural Excellence

We are dedicated to delivering research-based natural products that enhance life quality and elevate health standards. Focused on the healthcare, cosmetic, and food industries, our commitment is to provide premium-quality ingredients with unparalleled service.

Vision

Pioneering Wholesome Living, Empowering Communities

Crafting excellence, we proudly offer nature's best for a wholesome living experience. Committed to constant innovation, we aim to redefine customer product lines while empowering communities and leading in the realm of natural well-being.



Certifications



CDP Environmental Impact Grade: B- (Global Average C)





Contents



1. Facility and production capabilities
2. R&D lab and product development
3. Technologies
4. Ingredients and applications
5. Organic farms and sourcing
6. CSR
7. Recent achievements

Facility and Production capabilities





SCO₂ extraction facility consists of 4 different units with a combined annual capacity of 450 MT





Extraction facility



Over 200 botanical herbs extracted

- ✓ **Two 100 liters, One 50 liters and, One 25 Liter machines**
- ✓ **24x7 operations**
- ✓ **Applications in food, cosmeceuticals and nutraceuticals**



Full spectrum powder extracts



- ✓ Annual Capacity of 70 tons
- ✓ More than 50 products in offering
- ✓ Applications in capsules, free form powder products for nutraceutical, cosmetics and tablets





Water soluble liquid extracts



- ✓ Annual Capacity of 150 MT
- ✓ More than 90 products in offering
- ✓ Applications in food, beverages, RTD applications, cosmetics and functional foods



R&D lab and Product Development





Over 300 products developed serving more than 50 international brands





R&D, QA and QC



- ✓ **In house DSIR certified R&D lab**
- ✓ **Fully equipped with HPLC, GC, heavy metal analyzers and solvent residue analysis**
- ✓ **Fully equipped cell line lab with ELISA readers, high powered phase contrast microscopes and biosafety cabinets**





US FDA audited, GMP facility



- ✓ With more than 20 annual audits, extreme product traceability, retained sample procedures, product quality is assured; every time.



In house product development lab is innovating new product formulations and delivery strategies on a regular basis



Investments in clinical trials on a regular basis to back the ingredients with scientific data



Technologies



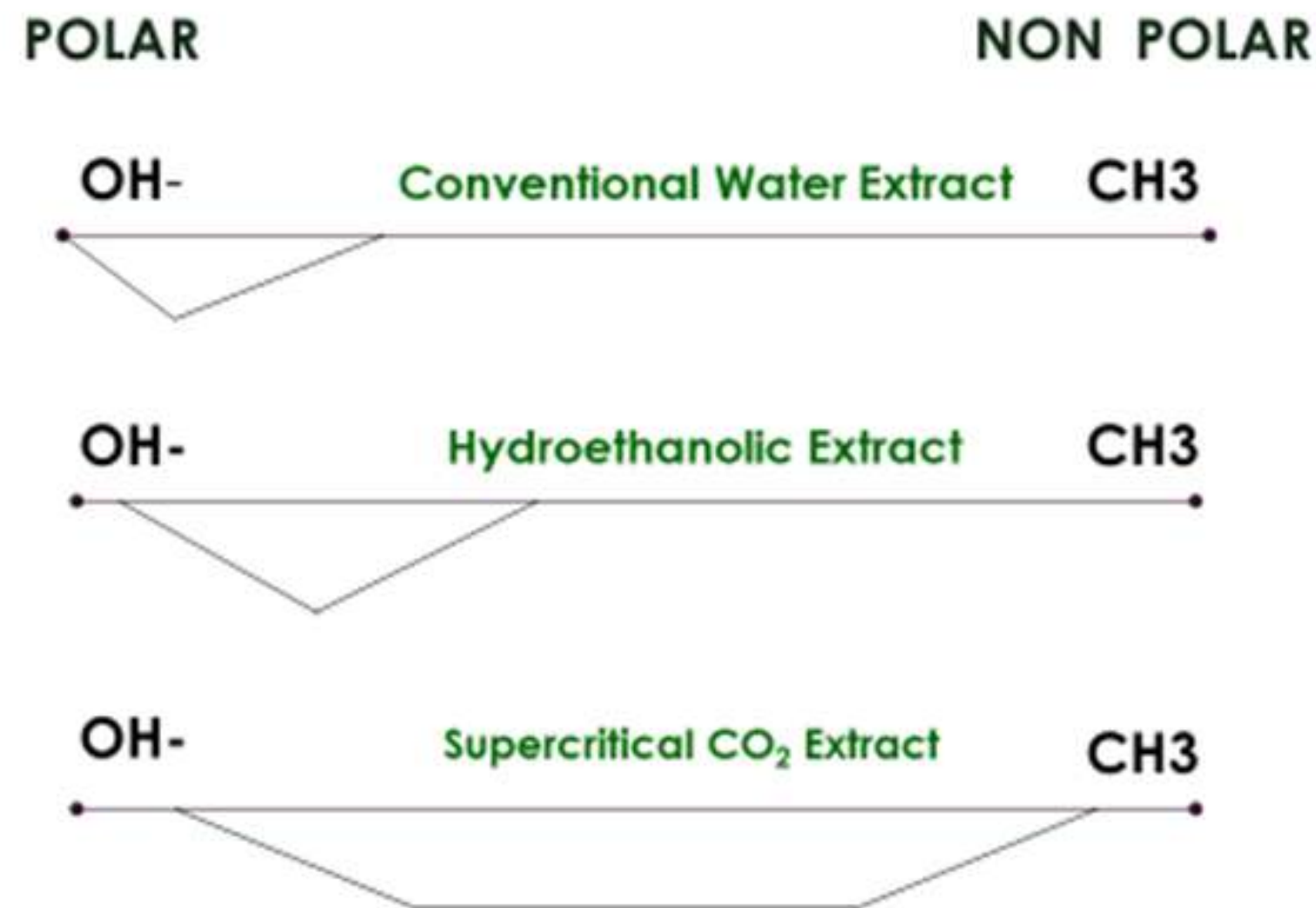
CO₂ extracts



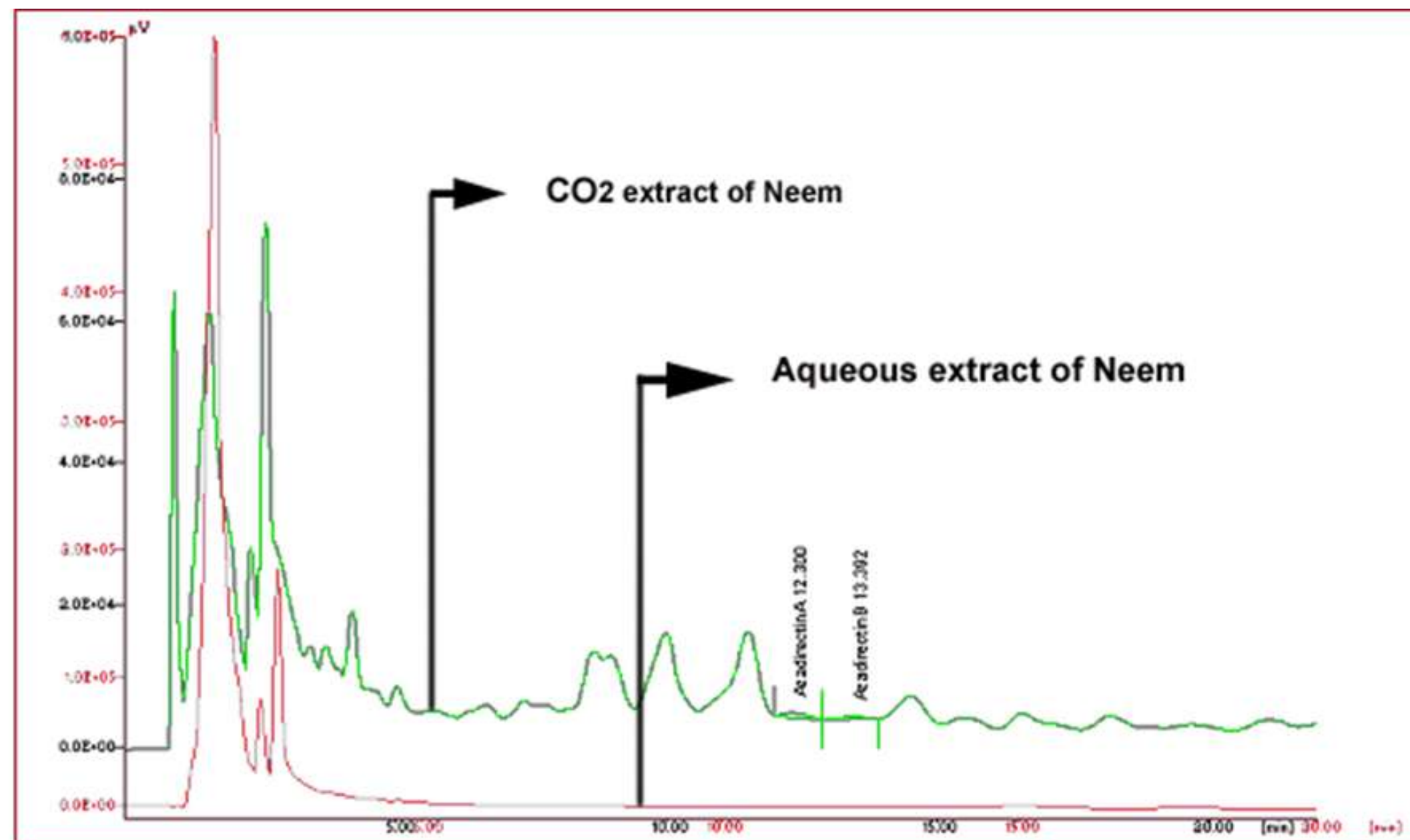
- ✓ **Low temperature lipid extraction technique**
- ✓ **Free from heavy metals**
- ✓ **Cleanest method of extracting botanicals**
- ✓ **Fast absorbing and highly bioavailable**
- ✓ **Free from harmful solvent residues**



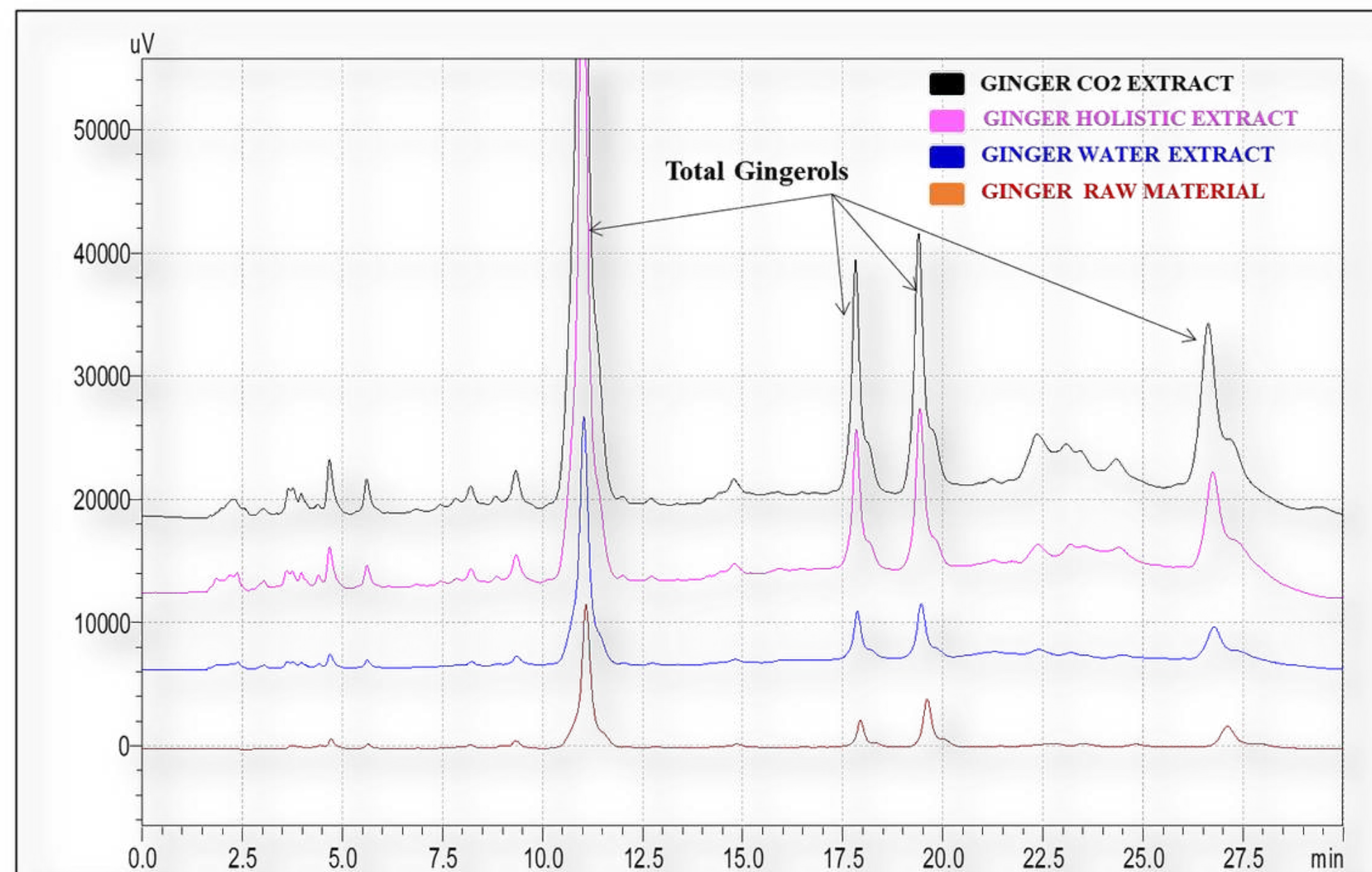
Comparison of CO₂ extract profiles with other forms of Extracts



Comparison of actives in aqueous extracts and CO₂ extracts



Comparison of actives in CO₂ extracts as compared to other forms of extracts



COMPARISON BETWEEN GINGER CHROMATOGRAM

Antioxidant and anti-inflammatory activity of CO₂ extracts

	Antioxidant results (%)	Anti inflammatory results (µg/ml)
Curcuma longa Turmeric(rhizome)	DPPH IC50= 0.02%	5-LOX IC50= 25.73 µg /ml
Zingiber officinale Ginger(root)	DPPH IC50= 0.001%	5-LOX IC50= 43.93 µg /ml
Bacopa monnieri Brahmi(aerial parts)	DPPH IC50= 0.1%	5-LOX IC50= 66.33 µg /ml
Eclipta alba Bhringaraj(aerial parts)	DPPH IC50= 0.02%	5-LOX IC50= 34.62 µg /ml
Ocimum sanctum Holy Basil(leaf)	DPPH IC50= 0.0088%	5-LOX IC50= 73.64 µg /ml
Azadirachta indica Neem (leaf)	DPPH IC50= 0.1%	5-LOX IC50= 84.31 µg /ml
Emblica officinalis Amla(fruit)	DPPH IC50= 0.036%	5-LOX IC50= 65.99 µg /ml
Terminalia chebula Haritaki(fruit)	DPPH IC50= 0.0031%	5-LOX IC50= 89.0 µg /ml
Terminalia belerica Bibhitaki(fruit)	DPPH IC50= 0.0039%	5-LOX IC50= 90.41 µg /ml
Tinospora cordifolia Guduchi(stem)	DPPH IC50= 0.1%	5-LOX IC50= 70.35 µg /ml

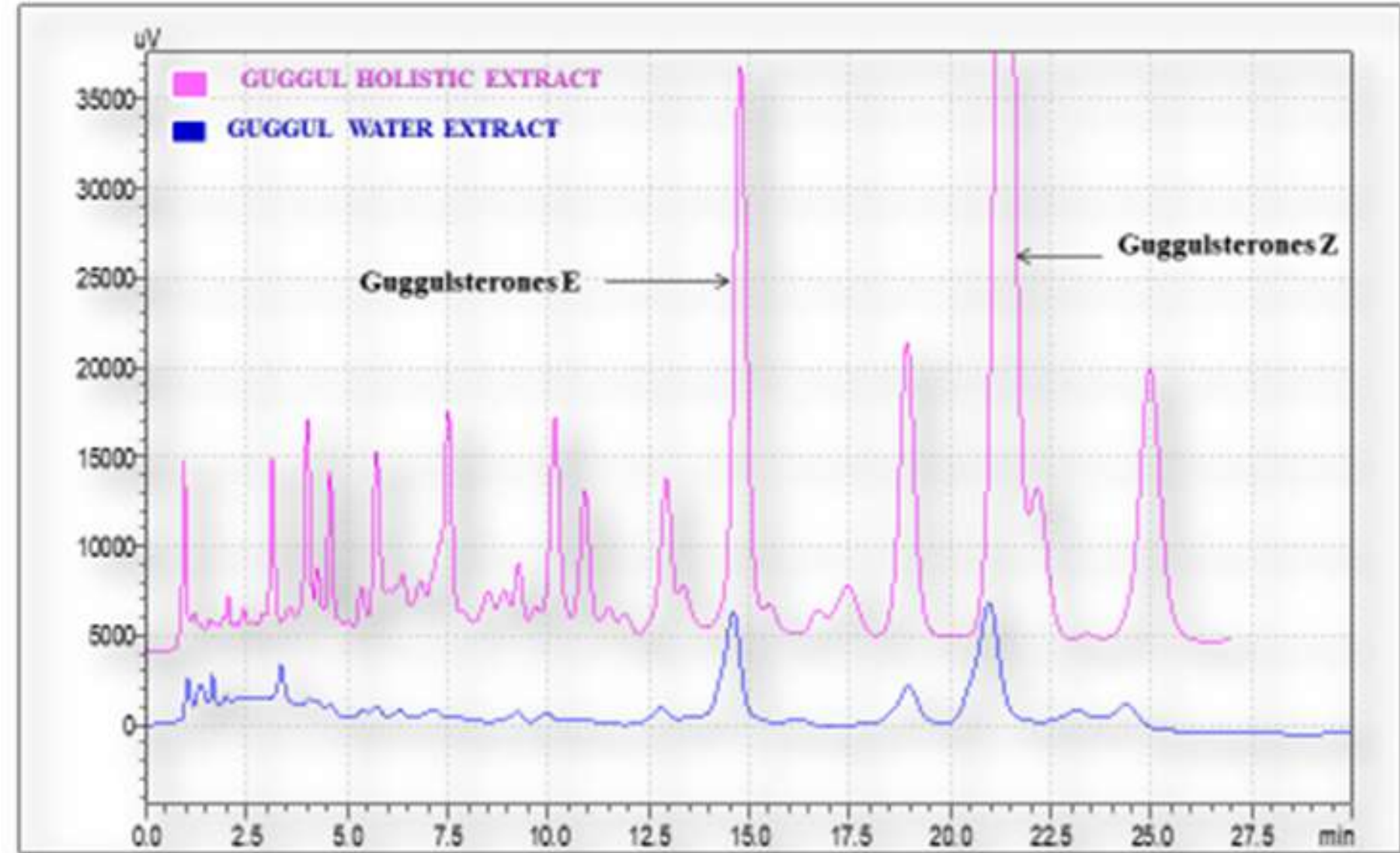
Full spectrum powder extracts



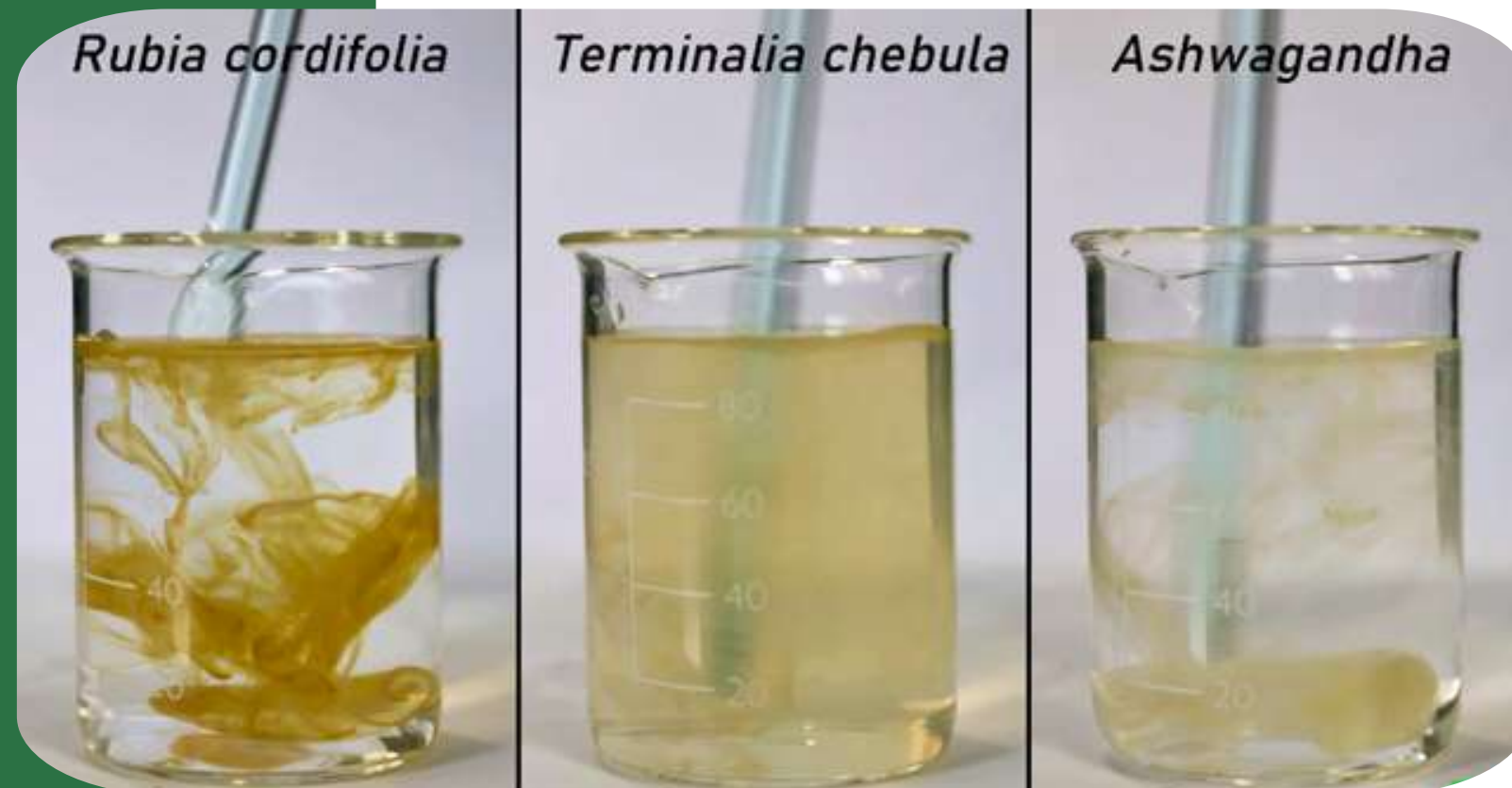
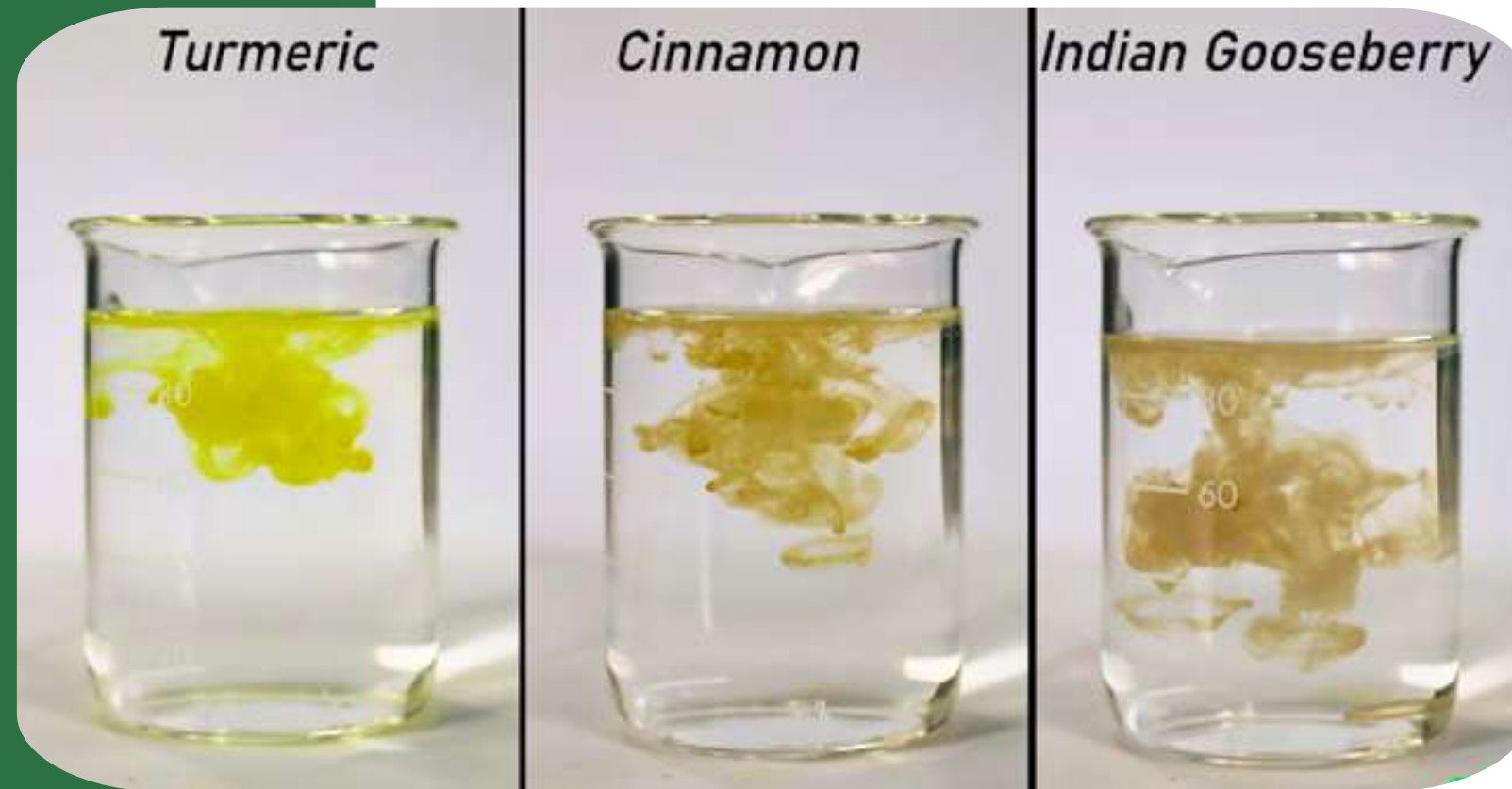
- ✓ Offering full spectrum of compounds in a very concentrated form
- ✓ Closest profile to raw herb
- ✓ A potent combination of oil and water soluble actives without the fibers and unwanted organic content
- ✓ Usually used in internal applications



Potency of full spectrum extracts as compared to water extracts



COMPARISON BETWEEN GUGGUL HOLISTIC AND WATER EXTRACT CHROMATOGRAM



Water soluble extracts



- ✓ Ease of use in food, cosmetic and beverage applications where lipid extracts are difficult to use.
- ✓ 100% natural
- ✓ Lipid molecule delivery in water soluble form



Ingredients and Applications



Where can extracts be used in finished products?

Ingredients Name	Topical use	Internal use	Properties
Eclipta	Hair growth, greying, conditioning	Alopecia, liver and spleen enlargement, Hepatitis and jaundice	Anti-inflammatory, antivenin, hypotensive, hepatoprotective
Gingerlily	hair softening, hair strengthening, UV protectant	fevers, stomach aches	immunomodulatory, antioxidant
Hemidesmus	reduce scarring, normalise skin tone, cooling	general tonic for women, hormonal balance	cooling, anti inflammatory, anti oxidant, anti cancer
Cyperus	wounds, scorpion bites, inflammation, sores, edema, anti dandruff, soothes scalp	diarrhea, stomach aches, pyresis, bowel disorders	antibacterial, antifungal



Ingredient Name	Topical use	Internal use	Properties
Holy Basil	skin disorders, wounds, antibacterial	ulcers, blood purification, immunity improvement	anti bacterial, antiviral, cooling, anti asthmatic, anti cancer, hypotensive, analgesic
Calendula	wound healing, reduce scarring, reduce eczema, reduce acne, moisturizing	reduce muscle spasms, reduce fever, heal wounds in throat and digestive tract	antiseptic properties, antifungal, antimicrobial, anti inflammatory
Andrographis	inflammatory disorder of scalp and skin	Anti-malaria, anti diarrheal, anti platelet activity, antipyretic	antiviral, anthelmintic, hepatoprotective, immunomodulatory
Licorice	skin lightening and whitening, reduce dark spots, cuts and wounds, hyperdypsia,	tonic, laxative, bronchodialator, ulcers	hepatoprotective, antiviral, antimicrobial



Ingredient Name	Topical use	Internal use	Properties
Green tea	moisturizing, treats acne, anti ageing, skin glow	improve brain function, fat burner, prevent cardiovascular disease	antioxidants, anti ageing, gentle exfoliator, rich in vitamins
Turmeric	insect bites, wounds, scar healing, improving hair lustre, radioprotective	hepatoprotective, blood thinner, diuretic, blood purifier	analgesic, anti inflammatory, antifungal
Amla	hair growth, conditioning, scalp health, burns, wounds	anti viral, hypolipidemic, hypoglycemic, myocardial necrosis	anti oxidant, anti-inflammatory, immunomodulatory, cooling agent



Organic farms and Sourcing





30 Acres of self-owned organic farms



- ✓ Farms based in different topographies
- ✓ One in the mountains
- ✓ One on the backwater of a dam
- ✓ Over 200 different botanicals
- ✓ Biodynamic farms
- ✓ Large network of farmers across India for sourcing of organic as well as conventional ingredients





Umbari Farm





Nitral Farm



CSR

ECOCERT ENVIRONNEMENT SAS hereby confirms that the following operation

NISARGA BIOTECH PVT. LTD

J-2/1, Addl. MIDC, Satara -

has been audited and certified according to the control procedures of the For Life Programme, certification programme for Corporate Social Responsibility.

For Life performance achieved:

75.3%





Medicine Distribution to Malnourished Children:

Under Integrated Child Development Scheme, the vaccination, nutrition diet provided to Nursery children between age group 0-6 years. The 'Imutizer' an immunity boosting medicine was delivered to 50 undernourished children in Hilly parts in Satara. Also importance of Nutrition rich diet told by Adv. Nilima Kadam to women and cooking competition for Nutritional diet also arranged in the program.





Hemoglobin importance and distribution of seeds:

A training was conducted in Satara and Jawali Taluka to increase awareness of good Hemoglobin level for good health in women, and reuse on grey water in rural area. The training was organized for Farmer Women in Bhatmarali, Shelkewadi, Shahapur and Kusawade. Total 107 women attended training.

In training the topics covered are proper planning and gardening as per weather, organic gardening for growing of vegetables which results in use of fresh vegetables as well as reduction in financial budget. The seeds of various vegetables for gardening were given to women such as bitter gourd, cucumber, spinach, lady finger, etc.





Training on Agricultural processed products:

The main objective of this training was to explore local market for agricultural products, medicinal plants to Women Self Help Groups in Umbariwadi, Atali, Moleshwar villages in Jawali Taluka. In this, the processing done on the products grown in farms such as rice, ragi, potatoes, Shatavari, Jackfruit, Hirda to make them market ready. It can be more helpful to explore when the visitors come to visit World Heritage – Kaas Plateau. The trainer Anjali Dhumal also told about importance of this products in daily life.





COVID 19 response:

The help of essential groceries was provided to 130 families in Umbariwadi. The help included wheat, pulses, rice, biscuits, etc. Also informational awareness related to the disease and its preventive measures were given.





Apiculture training:

The threshold, darkness and expanse of forest area in Jawali Taluka which is featured with evergreen and dense vegetation can be used for Apiculture. Nisarga Biotech Pvt. Ltd. organized various meetings with farmers and Women self-care groups to tell importance and usefulness of apiculture. Interested people went for further training in Umbariwadi where they also got information about Government training programs and other programs related to Apiculture.





Tree Plantation:

Nisarga Biotech Pvt. Ltd. engaged with tree plantation in various areas with the help of farmers. On village level, various medicinal plants were given. Training and information for tree plantation as well as its cultivation, fertilization and water management was given.





Biodiversity information collection and its awareness:

Considering Biodiversity in Umbariwadi and other areas, we are gathering all the scientific information related to trees, medicinal plants, animals, birds with the help of experts. The objective of this program is to collect the scientific information and try to conserve and increase the species by plantation.





In partnership with Aveda, GGF and AWARD, a water security project was completed.

Women would walk 2 miles back and forth to bring potable water to their houses before this project. Wasting about 4 hours a day in just procuring potable water.





In partnership with Aveda, GGF and AWARD, a water security project was completed.





With additional time saved due to water available at home, kitchen gardens were established to improve nutrition and training was given on crop rotation and nutrition.





Public awareness was raised about tree conservation by hanging placards in tourist areas.





Guest lectures on women empowerment were held and a sports competition was arranged for women.





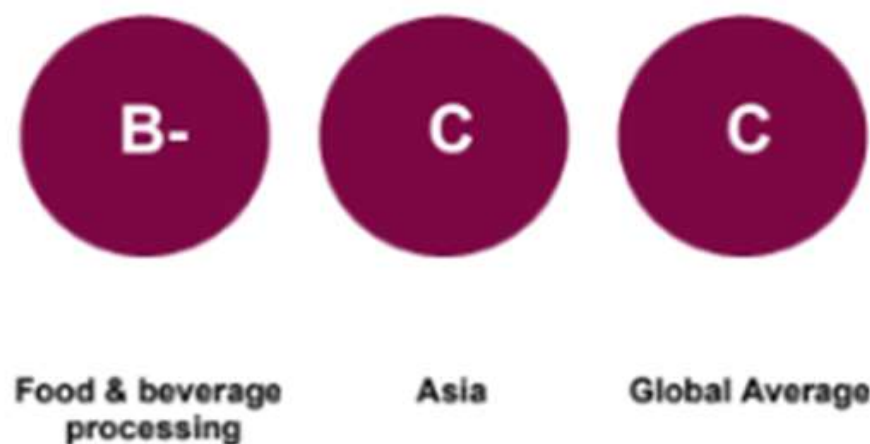
Hundreds of meetings over the years and more that 200,000 farmers trained in organic practice so far. Nisarga provides both financial and educational resources to support their conversion to organic agriculture



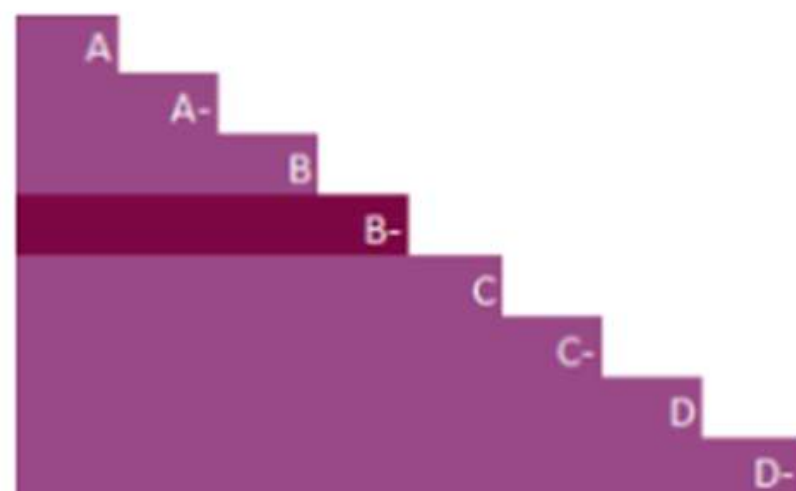
Your CDP score



Average performance



UNDERSTANDING YOUR SCORE REPORT



NISARGA BIOTECH PVT LTD received a B- which is in the Management band. This is higher than the Asia regional average of C, and the same as the Food & beverage processing sector average of B-.

- Leadership (A/A-): Implementing current best practices*
- Management (B/B-): Taking coordinated action on climate issues*
- Awareness (C/C-): Knowledge of impacts on, and of, climate issues*
- Disclosure (D/D-): Transparent about climate issues*

Rain water harvesting is done to ensure water conservation as well as 50% of the total electrical and heating needs of the company are met with solar power to reduce the carbon footprint of the company.



Recent Achievements

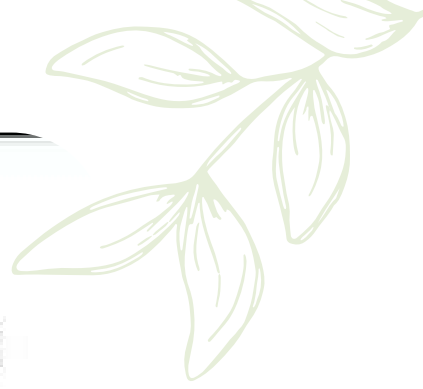


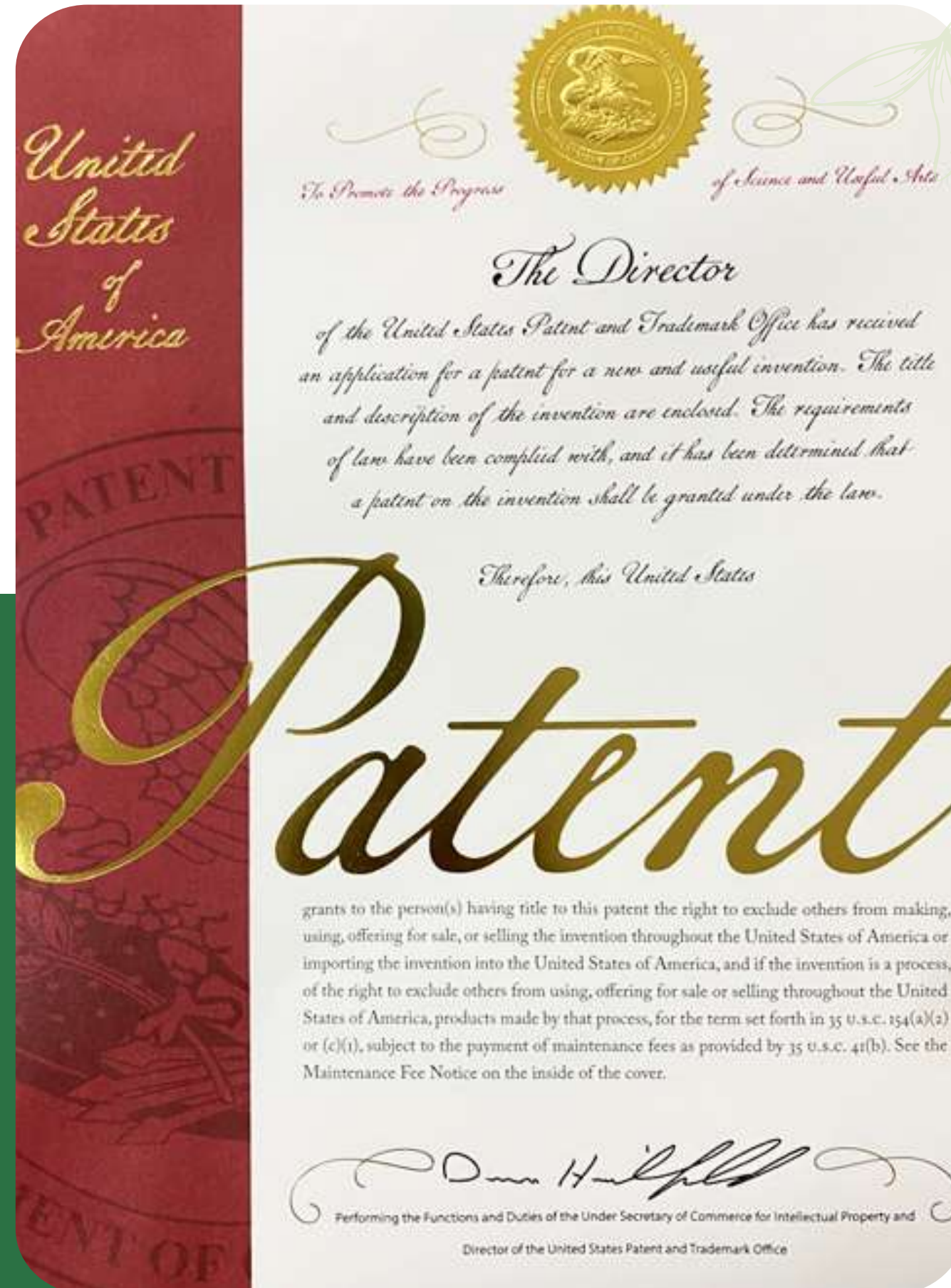
Hospital, Faridabad announces Positive Results of a clinical study evaluating Nisarga Herbs' Neem Capsules for Prevention of COVID-19

- The study shows this Neem Formulation in a double-blind trial successfully indicated 55% efficacy in prevention of Covid-19

FARIDABAD, India, April 27, 2021
/PRNewswire/ -- ESIC Medical College and Hospital, Faridabad and Nisarga Biotech Pvt. Ltd today announced the final data from a pilot, double-blind, randomized, placebo-controlled trial studying prophylactic activity of a proprietary, patent-pending, Neem-leaf extract (*Azadirachta Indica A. Juss*) of Nisarga Biotech in healthcare personnel and relatives in daily contact with COVID-19 patients. The study was a planned collaboration of **ESIC Medical College and Hospital, Faridabad & All India Institute of Ayurveda (AIIA), New Delhi**, and was sponsored by **Nisarga Biotech Pvt. Ltd, Satara, MS.**

**Clinically
proven
therapy in
prevention of
Covid-19
using our
Neem Leaf
Extract**





Patent on Neem leaf extract in oral and colon cancer

Based on our years of research efforts, we were granted the patent for preparation of Neem leaf CO₂ extract and its compositions for treatment of Oral and Colon Cancer.

Patent No. US11291647B2 (2022)

Thank You



Contact Information

Nisarga Biotech Pvt. Ltd
J2/1 Addl MIDC
Satara 415004
MS
India 415004

Phone: +91 955 279 4004

Email: Devendra@nisargabiotech.com

