



Manipal Natural
Wellness Redefined
CLEAN AND PURE
**Botanical
Extracts**



Manipal Natural
PRIVATE LIMITED

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Ashwagandha Extract

Botanical Name : Withania Somnifera

Family : Solanaceae

Common Name : Ashwagandha

Part Used : Roots & Whole Herb

Introduction :

Withania somnifera, commonly known as Ashwagandha, is a staple herb in Ayurveda and has been used in India for over 4000 years.

Phyto Constituents :

The key constituents of ashwagandha are steroidal alkaloids and lactones, mainly withaferin A and withanolide D, which contribute to its pharmacological effects.

Benefits :

Ashwagandha is known for its thyroid-stimulant, anti-stress, anti-tumor, radio sensitizing, immunomodulatory, hepatoprotective, cardioprotective, hypoglycemic, diuretic, adaptogenic, and antioxidant properties.

Available Grades :

- Ashwagandha Extract 1.5%, 2.5%, 5%, 10% Withanolides by GV.
- Ashwagandha Extract 1.5%, 2.5%, 5% by HPLC.
- Organic Ashwagandha Extract 5% by GV.



Turmeric Extract

Botanical Name : Curcuma longa

Family : Zingiberaceae

Common Names : Turmeric, Turmeric Root,

Part Used : Rhizome

Introduction :

Curcuma longa, commonly known as turmeric, is a plant with a rich history in Ayurvedic medicine. Known for its active component, curcumin, turmeric offers multiple health benefits.

Benefits :

- **Anti-inflammatory Action :** Traditionally used in Ayurvedic medicine for inflammation, Curcumin (50 mg/kg/day) in mice decreased pancreas injury and reduced serum amylase, ALT, AST, and TNF- α .
- **Antioxidant Action :** Curcumin treatment in ethanol-exposed mice reversed liver damage and ROS generation, providing protection against alcoholic liver disease.
- **Bone Health :** Osteoarthritis patients treated with Curcuma longa (500 mg twice daily) showed reduced knee pain and improved function over 42 days.

Available Grades :

- Turmeric Extract 95%, 85% Curcuminoids.
- Organic Turmeric Extract.
- Turmeric Extract Water dispersible 30% Curcuminoids.



Lutein Extract

Botanical Name : Lutein

Family : Xanthophyll

Common Name : Marigold Flower Extract

Part Used : Flower

Role of Lutein in Eye Health

Lutein, found in the macula, protects the eye from oxidative stress and blue light. Studies show a direct link between lutein intake and macula pigmentation, reducing the risk of eye diseases like Age-related Macular Degeneration (AMD). It filters blue light and scavenges reactive intermediates.

Role in Skin Health :

- Reduces lipid peroxidation.
- Increases skin elasticity, hydration, and superficial lipids.

Available Grades :

- **Lutein Ester** : 5%, 10%, 20%, 40% Oil/Powder; 80% Powder.
- **Lutein Free** : 5%-75% Crystals.
- **Other Grades** : Water dispersible.
- **Zeaxanthin** : 5%, 10%, 50%.





Coleus Extract

Botanical Name : Coleus forskohlii (L.)

Family : Lamiaceae

Common Name : Mkandi

Plant Parts Used : Root

Introduction :

Coleus forskohlii, is an indigenous medicinal plant from the Lamiaceae family. Its bioactive compound, forskolin, boosts cyclic AMP in cells, affecting various physiological functions.

Phyto Constituents :

Primary components include forskolin, labdane diterpenoids, β cadinene, β -citronellol, α -cedrene, and citronellal, along with phenolics, flavonoids, and essential oils.

Benefits :

- Antiglaucoma
- Anti-obesity
- Antithrombotic
- Anti-inflammatory

Role of Forskolin on Human Health :

Forskolin aids fat reduction, heart health, asthma relief, and glaucoma management.

Applications : Pharmaceuticals, Nutraceuticals, Dietary Supplements, Cosmetics

Available Grades : Coleus extract 10%, 20%.



Black Pepper Extract

Botanical Name : Piper Nigrum L

Family : Piperaceae

Common Name : Black Pepper

Part Used : Seed



Introduction :

Black Pepper (Piper Nigrum L) has been used worldwide as a spice and folk medicine. Its primary bioactive component, piperine, offers several health benefits, notably in supporting digestive function.

Phyto Constituents :

Black pepper contains fiber, essential oils, piperine, eugenol, lipase, and minerals. Essential oils include α and β pinene, limonene, and β -caryophyllene.

Benefits :

Black pepper enhances digestion, appetite, and circulation, and treats cold, cough, throat ailments, fever, colic, dysentery, and more. It has broad antimicrobial, analgesic, antipyretic, and anti-inflammatory effects, largely due to piperine.

Available Grades :

- Black Pepper Extract 95% piperine (Organic and Conventional Grade).





Boswellia Serrata Extract

Botanical Name : Boswellia Serrata

Family : Burseraceae

Common Name : Salai Guggal, Frankincense

Part Used : Oleo-gum-resin

Phyto Constituents :

Boswellia serrata contains 8-9% essential oil, 20-23% gum, and around 50% resin, which includes pentose and hexose sugars and digestive enzymes. The resin's main active component is boswellic acid.

Benefits :

The oleo-gum-resin of B. serrata is traditionally used for therapeutic purposes, including cancer, inflammation, arthritis, asthma, psoriasis, colitis, Crohn's disease, and hyperlipidemia. Its anti-inflammatory and anti-arthritis properties are due to boswellic acids.

Available Grades :

- Boswellia Extract 30% AKBA.
- Boswellia Extract 65% Boswellic acid by Titration.



Gymnema Extract

Botanical Name : Gymnema Sylvestre

Family : Apocynaceae

Common Name : Gurmar

Part Used : Leaf

Introduction :

Gymnema Sylvestre (Asclepiadaceae), known as 'gurmar', is an Ayurvedic herb valued for its antidiabetic properties.

Phyto Constituents :

Key blood sugar-suppressing phytoconstituents include gymnemic acids, gymneasaponins, and the polypeptide gurmardin.

Benefits :

Gymnemic acids from *G. sylvestre* may:

- Increase insulin secretion.
- Promote islet cell regeneration.
- Enhance glucose utilization via insulin-dependent pathways.
- Inhibit intestinal glucose absorption.

Available Grades :

- Gymnema Extract 25% total gymnemic acid by GV, HPLC.
- Gymnema Extract 75% total gymnemic acid by GV.



Bacopa Extract

Botanical Name : Bacopa Monnieri (Linn)

Family : Scrophulariaceae

Common Name : Brahmi

Part Used : Leaf

Introduction :

In Ayurveda, Bacopa Monnieri is classified as a Medhyarasyana, that is, a medicinal plant that rejuvenates intellect and memory.

Phyto Constituents :

The chief constituents of Bacopa monnieri are tetracyclic triterpenoid saponins, bacoside A and B (crystalline mixture of several saponins). Among these, bacoside A is predominant.

Benefits :

Helps in memory and Cognition.

Available Grades :

- Bacopa Extract 20% Bacosides by HPLC.
- Bacopa Extract 50% Bacosides by HPLC.



Amla Extract



Botanical Name : Emblica Officialis Gaertn

Family : Euphorbiaceae

Common Name : Amla, Amlaki, Indian Gooseberry

Part Used : Fruit

Introduction :

Amla is being used as traditional and functional food in Asia, has physiological benefits such as hepato-, cyto- and radio- protection, as well as hypolipidemic effects. It is used both as a medicine and as a tonic to build up lost vitality and vigor.

Phyto Constituents :

E. officinalis is highly nutritious and is an important dietary source of vitamin C, minerals and amino acids. Glutamic acid, proline, aspartic acid, alanine, and lysine are the major amino acids present in amla. The fruit contains tannins such as emblicanin A, emblicanin B, gallic acid and ellagic acid.

Benefits :

Amla strengthens the heart, improve eye sight and imparts a natural glow to hair and body. E. officinalis is used as diuretic, laxative, antipyretic, aphrodisiac tonic. Amla controls digestive problems, and used in the treatment of burning sensation, Polydipsia (over thirst), dyspepsia and other complaints of digestive system. Hepatoprotective and immune-stimulating activity have also been reported.

Available Grades : Amla Extract 30% Tannins, Amla Sabari Fibre.





Salacia Extract

Botanical Name : Salacia reticulata Wight

Family : Celastraceae

Common Name : Salacia, Saptarangi, Kotalahimbatu

Part Used : Root and Stem

Introduction :

Salacia reticulata Wight is a woody climber used widely in the Ayurvedic system to treat diabetes and obesity. Salacia reticulata effectively improves insulin resistance, glucose metabolism and reduces obesity.

Phyto Chemistry :

The major phytoconstituents of *S. reticulata* include mangiferin, salacinol, kotalanol and ponkoranol have proved as anti-diabetic principles. Among them Mangiferin, Salacinol and kotalanol are primarily believed to be responsible for its hypoglycaemic effect.

Benefits :

Blood Sugar Control : Salacia Extract may help lower blood sugar levels, particularly after meals. It might also reduce hemoglobin A1c, a measure of long-term blood sugar control.

Weight Management : Salacia Extract contribute to weight loss by potentially reducing fat absorption and increasing metabolism.

Available Grades : Salacia Extract 0.4% Salacinol,
Salacia Extract 1.0% Mangiferin.



Fenugreek Extract



Botanical Name : Trigonella Foenum Graecum

Family : Leguminosae

Common Name : Fenugreek

Part Used : Seed

Introduction :

Trigonella Foenum Graecum is an annual plant belongs to the family Leguminosae. Seeds of fenugreek spice have medicinal properties such as hypocholesterolemic, lactation aid, antibacterial, gastric stimulant, for anorexia, antidiabetic agent, galactagogue, hepatoprotective effect and anticancer.

Phyto Constituents :

Fenugreek is rich in several phytochemicals, alkaloids, carbohydrates, steroidal saponins, amino acids and minerals. It is also a rich source of several important amino acids such as aspartic acid, glutamic acid, leucine, tyrosine and phenylalanine.

Pharmacological Activity :

- Immunological activity
- Antioxidant activity
- Antibacterial and antifungal effect

Grades Available :

- Fenugreek Extract 60% Saponins, Dietary Fibre, Lactomenon.





Garcinia Extract

Botanical Name : Garcinia Cambogia

Family : Guttiferae

Plant Parts Used : Fruit Rind

Introduction :

Garcinia Cambogia, native to India and Southeast Asia, has its rind used to flavor fish curries and preserve food. It's also a popular dietary supplement for various health issues, available in forms like tea, capsules, extracts, and functional beverages.

Benefits :

- Reduces the body's ability to store fat
- Lowers body weight through appetite control
- Reduces serum triglycerides
- Promotes thermogenesis

Role of Garcinia in Weight Management :

Garcinia cambogia extract inhibits the conversion of glucose into fat and cholesterol, helping to increase glycogen stores, reduce food cravings, and support weight loss. The rind contains Hydroxycitric acid (HCA), studied for its appetite-suppressing effects, and marketed for weight loss.

Available Grades :

- Garcinia Cambogia extract 50%, 60%, 65% HCA (water-soluble and insoluble)



Terminalia Bellirica Extract

Botanical Name : Terminalia Bellirica

Family : Combretaceae

Common Name : Bahera

Part Used : Fruit

Introduction :

Terminalia bellirica is commonly found on the plains and lower hills in South and Southeast Asia, where it is also grown as an avenue tree. The fruit of *T. bellirica* was found effective in the treatment of eye diseases, asthma, hepatitis, and dyspepsia, while the fruit pulp is useful in piles, leprosy, and diarrhea. The fruit's decoction is useful as a cough remedy, whereas the bark gum and the kernel oil of *T. bellirica* shown the purgative property.

Phyto Constituents :

Many phytochemicals are present in bahera such as β -sitosterol, gallic acid, ellagic acid and belleric acid (Khan & Gilani, 2008), findings from these studies implicated gallic acid as the insulinotropic agent in it. Therefore, the consumption of bahera fruit by diabetics may help in the treatment of hyperglycaemia and its complications.

Pharmacological Activity :

- Anti-inflammatory, Anti-oxidant, Immunomodulatory

Available Grades :

- Terminalia Bellirica Extract 40% Tanins.





Pterocarpus Marsupium Extract

Plant Name : Pterocarpus marsupium

Family : Fabaceae

Common Name : Indian Kino Tree, Vijayasar

Plant Part Used : Heartwood

Introduction :

Pterocarpus marsupium, is a deciduous tree native to India, Nepal, and Sri Lanka. It has a long history of use in Ayurvedic medicine for its therapeutic properties. The heartwood of Pterocarpus marsupium is valued for its antidiabetic properties, making it a central component in herbal formulations for managing blood sugar levels.

Phyto Constituents :

The phytochemistry of Pterocarpus marsupium consists of flavonoids, stilbenoids, tannins, saponins, terpenoids, and phenolic acids. In modern medicine, it has been recognized for its active compounds, such as pterostilbene, pterosupin, isoliquiritigenin, liquiritigenin, epicatechin, kinoin, kinotannic acid, kino-red beta-udesmol, carsupin, marsupol, and marsupinol.

Pharmacological Activity :

- Antidiabetic and Antioxidant Properties, Anticancer Potential
- Cardiovascular Health, Antibacterial and Antifungal Activity
- Hepatoprotective and Antihyperlipidemic Activity

Available Grades :

Pterocarpus marsupium Extract 75% & 90% Pterostelbine.

CERTIFICATES



MEMBERSHIPS

Agriculture and Processed Food Products Export Development Authority (APEDA)
 Pharmaceuticals Export Promotion Council (Pharmexcil)
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 Spices Board of India



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