

COMMERCIAL MATERIAL



www.cortexch.com

T: +48 14 646 61 00



Innovation Centre

Spiceuticals®

Unlocking the nutritional secrets of spices

www.akay-group.com

Spices & Herbs are well-known for their *health guarding* effects and *immunity boosting/protecting* effects. Ayurveda, *a way of life rather than a treatment modality*, uses a number of GRAS-listed kitchen spices and herbs for the maintaining and guarding the health and well-being, in addition to its role in the prevention and treatment of diseases. However, the taste, aroma, pungency and solubility are issues. Here we introduce a range of traditional Indian spices and herbs and their uniquely standardized clean label extracts which may help in balancing the immunity & well-being (IMMUNOMODULATORY HERBALS), especially under the current scenario when consumers are seeking safe & natural alternatives for health.

To be healthy, body needs to have sufficient defences to fight infection- **that is IMMUNITY.**

HOW TO BOOST IMMUNITY NATURALLY...?

AKAY has adopted the most common immunity herbals in Ayurveda and developed 'Value-added Uniquely Standardized Extracts' (**V-USE extracts™**) employing the patented **NUTRISPICE®** process to secure the bioactive principles in a BIO-EFFICIENT manner suitable for the 3D-printing of food/beverages and Capsules/tablets.

NATURAL, TASTY, SAFE, COST-EFFECTIVE & REGULATION-FRIENDLY...!





USP STANDARDIZED ASHWAGANDHA EXTRACT

AshwaBEST™ is the uniquely standardized ashwagandha extract based on USP method of analysis to make sure the correct & efficient dosage of withanolides and withano glycosides in small dosage like 100 or 150 mg x 2/day. Many aswagandha extracts were shown to provide low withanolides (even as low as 50 times) against their label claims and is adulterated with leaves though claims as root only extracts.



SPECIFICATIONS	
Ingredients	Natural extract of Ashwagandha (<i>Withania Somnifera</i>)
Description	Light to dark brown* free flowing powder
Withanolides content	NLT 2.5% by HPLC
Solvent used	Ethanol/Water (roots or roots+leaf as per customer choice)

- Aswagandha is famous as an Ayurvedic adaptogen that helps the body to cope up with stress and anxiety by modulating cortisol levels and hence prompting good sleep, and energy.
- Improves the body's defense against disease by enhancing the cell-mediated immunity.
- Promote natural killer cell activity thereby helping to fight against infections.
- A vitalize that can pump energy and vitality to fight against chronic fatigue syndromes and androgen-deficiency
- Aswagandha is known to treat fertility issues and is aphrodisiac/enhances libido
-

Longperin™

STANDARDIZED LONG PEPPER EXTRACT

One of the best long pepper extract correctly derived by Pharmacognosy principles and DNA authentication. Unique among the available extracts in the marketplace with 10% piperine content.



SPECIFICATIONS	
Ingredients	Natural extract of Long Pepper (<i>Piper retrofractum</i>)
Description	Light brown free flowing powder
Piperine content	NLT 10% by HPLC
Solvent used	Ethanol/Water

- Long pepper contains piperine, chavicine, isochavicine, isopiperine and piperanine.
- Possess anti-oxidant, anti-fungal, anti-amoebic, anti-microbial, anti-asthmatic, analgesic, anti-inflammatory activities.
- Act as antagonist in respiratory depression by stimulating the respiratory system.
- Activate macrophages and thereby increase phagocytic activity.
- Known to reduce the Reactive oxygen species (ROS) and provide anticancer effects with significant NK cells activity
- A popular ingredient in Ayurveda to enhance the bioavailability of nutrients, detoxification, hepatoprotection and to recondition the body to respond to herbal drugs

SesaMAX

ANTIOXIDANT RICH SESAME OIL

SesaMAX is S3-complex-rich sesame oil prepared by a proprietary supercritical process. The three key antioxidants sesamin, sesamolin and sesamol are collectively called S3-complex™.



SPECIFICATIONS	
Ingredients	Natural extract of Black sesame (<i>Sesamum indicum</i>)
Description	Light brown to brown* Slightly viscous liquid
Total sesamin content	NLT 10% by HPLC
Solvent used	SCFE

- Contains sesamol, sesamolin and sesaminol (S3-complex).
- Possess high levels of antioxidants including unsaturated fatty acids, mainly oleic and linoleic, lignans, and phytosterol.
- Modulate the pro-inflammatory function of macrophages and dendritic cells and promote Th2 response to boost immunity
- Sesamine consumption is known to improve skin health (beauty within) by reducing the dryness, itching and wrinkles and increases the hydration and glow
- Sesamine antioxidants (S3-complex) can also support to balance lipid profile

AmlaFRESH

EXTRACT FROM FRESH AMLA FRUIT

Usually, Amla is dried and extracted with water or ethanol/water to produce cheap extracts standardized for tannins. During this process, the bioactive gallates in amla undergo polymerization and it becomes complex and not bioavailable. It also destroys many of its natural goodness such as Vitamin C content. AmlaFRESH is a solution to these problems to tune or help your immunity & metabolism.



SPECIFICATIONS	
Ingredients	Natural extract of Amla (<i>Emblica officinalis</i>)
Description	Off white to creamish white Free flowing powder
Ascorbic acid content	NLT 1% by HPLC
Solvent used	No Solvents

- Contains high amounts of ascorbic acid, ellagitannins, punicafolin, phyllanemblin, flavonoids, ellagic acid and gallic acid.
- Rich in anti-oxidants, helps to detox the *system*, and digestive functions.
- Beneficial in the treatment of respiratory disorders, tuberculosis of lungs, asthma and bronchitis.
- Supports and boosts the natural *immunity* via regulating IL-2 and gamma-IFN production
- Bioavailable gallates in Fresh amla juice has been shown to convert to vitamin C in vivo
- Fresh turmeric?Fresh Amla combination is an Ayurvedic rejuvenator for metabolism, energy, cognition and immunity

FRESH TURMERIC DERIVED JUICE POWDER

Derived from fresh turmeric juice powder for the first time and clinically proven for High bioavailability of FREE curcuminoids (40X) (JFF 2015).



SPECIFICATIONS	
Ingredients	Natural extract of turmeric (<i>Curcuma Longa</i>)
Description	Brownish yellow free flowing powder
Total Curcuminoids content	NLT 4% by HPLC
Solvent used	No solvents used

- Fresh turmeric is the one described in Ayurveda for immunity and well-being. Since its collection, storage and process is difficult, modern science adopted to drying and solvent extraction to get curcumin. Herefor the first time, we developed CurcuFRESH....the **complete turmeric matrix-curcumin** with high bioavailability by a solvent free process.
- Boost up the immunity and helps to fight against viral replication.
- Helps to regulate the hypersensitivity reactions of immune systems by controlling the release of pro-inflammatory cytokines (e.g., TNF, IL-1, IL-2, IL-6, IL-8, and IL-12) and pro-inflammatory enzymes (e.g., COX, LOX, MMPs, and NOS) through NF- κ B inhibition.
- Modulate the activation of T cells, B cells, macrophages, neutrophils, natural killer cells, and dendritic cells.
- Possess prebiotic properties that regulate gut microbiota and support the gut-immune connection.

Contact for CurcuFRESH rich in Probiotics

Ginginoll®

6-GINGEROL RICH GINGER EXTRACT

Gingerol present in ginger extract has shown support to digestion, reduce nausea to fight common cold, boost immunomodulatory genes and supports microcirculation and cardiac health. Ginginoll® is Gingerol-rich extracts (5 to 50%) in water soluble/dispersible grade for functional applications and can be used in tea, beverage, juices, gummies etc.

SPECIFICATIONS	
Ingredients	Natural extract of ginger (<i>Zingiber officinale</i>)
Description	Brownish yellow powder
Total Gingerols 6-gingerols	NLT 6% by HPLC NLT 5% by HPLC
Solvent used	CO2 extracted



- Possess strong antioxidant, anti-inflammatory, decongestant, anti-viral, anti-parasitic and anti-microbial (both antibiotic as well as antiseptic) properties.
- Helps with respiratory problems, eases asthma symptoms, inhibits production of cytokines which cause pain and swelling, recover humoral immune response, combats chills and fever.
- Supports healthy inflammatory response and upregulate anti-inflammatory cytokines
- Supports microcirculation and cardiac health
- Supports digestion and healthy metabolism
- Promotes thermogenesis

BOOST YOUR IMMUNE SYSTEM NATURALLY



GENERICIS FOR IMMUNITY

- ✦ Turmeric
- ✦ Ashwagandha
- ✦ Ginger
- ✦ Tulsi
- ✦ Black Pepper
- ✦ Long Pepper
- ✦ Cinnamon
- ✦ Trikatu
- ✦ Amla
- ✦ Cumin
- ✦ Licorice
- ✦ Sesame
- ✦ Rosemary
- ✦ Celery
- ✦ Nutmeg
- ✦ Chirreta
- ✦ Bhui Amla
- ✦ Brahmi
- ✦ Neem





Cortex Chemicals Sp. z o.o.

ul. Malczewskiego 8
33-100 Tarnów, Polska
T: +48 14 646 61 00
cortexch.com