

PRATHISTA INDUSTRIES LIMITED

AN ISO : 9001, 14001 & OHSAS 18001 CERTIFIED COMPANY

SUCCESS WITH NETWORKING



PRATHISTA®

The pride of being

INDIA BASED MULTINATIONAL COMPANY

"PHARMACEUTICALS & FOOD INGREDIENTS"

PRATHISTA MISSION

RESEARCH & DEVELOPMENT

GREEN TECHNOLOGIES

FARMERS' PROSPERITY



NON GMO

PHARMACEUTICALS

FOOD INGREDIENTS

NUTRACEUTICALS

FEED SUPPLEMENTS

PRATHISTA COLLABORATORS - GOVT. OF INDIA



National Agricultural Innovation Project, Indian Agricultural Research Institute,
Central Arid Zone Research Institute,
Indian Council of Agricultural Research & Council for Scientific & Industrial Research

"MAKE IN INDIA PROJECT"

www.prathista.com



Dr KVSS SAIRAM, MANAGING DIRECTOR - RECEIVING "SCIENTIST OF THE YEAR 2015" AWARD FROM "OXFORD ACADEMIC UNION", OXFORD, UK

About Prathista

Prathista Industries Limited – an India based MNC is professionally managed manufacturing organization, commenced its commercial operations during the financial year 1995-96.

Prathista started during 1995-96 as a joint venture company between Dr. KVSS SAIRAM vs Technology Development Board, Ministry of Science & Technology, Government of India, Nationalised Banks and established state of the art fermentation facilities and is one of the largest industrial fermentation plants in Asia, engaged in manufacturing and marketing of Pharmaceutical products & Food Ingredients as per FDA norms.

Believing in R&D, Prathista established World class R&D center with Capital investment of \$ 1.7 million during 1997 -98, with World bank financial collaboration @ \$ 0.50 million.

Prathista R&D Center since its inception is enjoying recognition from Department of Scientific & Industrial Research (DSIR), Govt. of India. Prathista having viable linkages with various Universities / Academic Institutes across the Globe for live Research Collaborations under PPP model to promote life sciences & also to commercialize Researchers' Innovations through Bio-Technology methodologies while providing platform for Undergraduates, Post graduates & Ph.D scholars to conduct their Research at Prathista in relevant fields.

Prathista presently enjoying unique position in India and in entire Asia & Global markets for its products and services.

Prathista products are certified Halal and having accreditations of ISO 9001, 14001 & OHSAS 18001, HACCP & ISO 22000 for Food Safety Management System. Prathista products are also certified by Kosher and having GMP certification as per DMF to produce QUALITY products.

Prathista is pioneering organization for manufacturing and marketing of various NON GMO Food Ingredients, Fermented Wheat / Corn Flour, Nutraceutical formulations and range of Pharmaceutical products.



Products for Pharmaceutical & Food Ingredients – NON GMO Products:-

- Lactic Acid, Calcium Lactate, Sodium Lactate and other salts of Lactic acid.
- Gluconic Acid, Calcium Gluconate, Sodium Gluconate and other salts of Gluconic acid.
- Glucono - Delta - Lactone.
- Propionic acid, Calcium Propionate, Sodium Propionate and other salts of Propionic acid.
- Chelated Mineral salts based on Lactate, Gluconate and Proteinate.
- Yeast products.
- Fermented Wheat / Corn Flours.
- Natural Mold Inhibitors for Bread Industries.
- Maltodextrin etc.

Prathista being a manufacturing Plant, any other related products also can be manufactured based on customer requirements.

Lactic Acid

Application & Uses :

- In sugar confectionery, it is used in continuous production line for highly boiled sweets to make perfectly clear sweets with minimum sugar inversion and with no air trapped.
- In bakery products it is used for direct acidification of bread. It increases butter stability and volume.
- To produce a mild and pleasant taste to acid pickles, relishes and salad dressings. Lactic acid suppresses Coli form and Mesenteric group of Bacteria. Also used in Jams, Jellies, and Frozen fruit desserts.
- In Dairy Products such as cottage cheese, addition of lactic acid is preferred to fermentation. Also used in imitation dairy products such as cheese and yoghurt powder.



- Lactic acid is widely used in preserving fruits, like, firmness of Apple slices during processing and it also inhibits discoloration of fruits and some vegetables.
- Use of buffered lactic acid improves the taste and flavour of many beverages, such as soft drinks, mineral water, carbonated fruit juices etc.
- In breweries lactic acid is used for pre- adjustments during the mashing process and during wort cooking acidification with lactic acid of lager beer improves the microbial stability and as well as flavour.
- It also used in processing of meal in sauces for canned fish, to improve the taste and flavours and to relieve the unpleasant amine flavour from fish meal for incorporation into bread.
- Lactic acid is used as pH regulator for Pharma products.
- It is suitable as a starting material in the synthesis of chiral products e.g. herbicides or pharmaceuticals. It is also used as monomer for poly lactates, a new generation of Bio Degradable polymers.
- It is in many decalcification products such as cleaners for Toilets, Bathrooms and coffee machines. It possesses anti-microbial properties.
- Lactic acid is used in Nickel plating processes because of its unique complexation constant for nickel. It simultaneously acts as pH Buffer and stabilizer for broth.

Calcium Lactate

Application & Uses :

It is the preferred choice in preparation for calcium deficiency therapy, since it is a calcium salt with high solubility and bio-availability.

It is an excellent calcium source in tablet making by pharma industry. Besides the powdered form, granular forms are also available for the direct compression of calcium lactate into tablets.

Calcium Lactate is used to fortify milk and fermented dairy drinks.

Calcium Lactate enriches products such as sport and health drinks, fruit juices, diet foods and infant formulas and improves bio-availability.

It is used as anti-tartar agent in many oral care products such as toothpaste and mouthwash.

In the pharmaceutical (Human Medication) industry Calcium is an essential element of tissues and blood which contains approximately 10 milligram per 100 milliliters. The average daily requirement of calcium is 500 milligrams, but larger amounts are necessary for periods of growth, pregnancy and lactation. Inadequate calcium absorption leads to rickets and imperfect calcification of bones and teeth.

The main therapeutic classes are

- Calcium Therapy tonics
- Sedative and-hypnotics Haematinics
- Low toxicity
- Higher stability
- Multi-vitamins
- Calcium Lactate has significant advantages over other calcium salts
- Better palatability better texture
- Low astringency

In the Veterinary Pharmaceutical Industry here Calcium Lactate is used for the treatment of hypocalcaemia in cases of milk fever. Calcium Lactate is the product of choice for such treatments, because it has no irritating effect on the body tissue.

In the Food Industry frequently, Calcium Lactate is added to food for its nutrition / health value e.g. in baby food, fruit juices, biscuits, health foods etc. Another use in the incorporation of Calcium Lactate in instant pudding powder mixes in order to increase the speed of reaction.

Potassium Lactate

Application & Uses :

Potassium Lactate is administered in all cases of potassium deficiency and when there is danger of potassium depletion. Potassium depletion may be caused by diabetic acidosis, diarrhoea, vomiting etc., potassium chloride is also used, but Potassium Lactate is preferred because of its slightly mild saline taste.

Sodium Lactate

Application & Uses :

- It is used as an electrolyte in many I.V. solutions intended for fluid or electrolyte replenishment in pharma industry.
- It is used in Continuous Ambulatory Peritoneal Dialysis (CAPD) solution for nephric patients and in dialysis solutions for conventional artificial kidney machines.
- Sodium Lactate is used extensively by the processed meat to give products an extended shelf life and enhanced flavour and to provide better control of food borne pathogenic bacteria.
- It is used as a moisturizer in all kinds of toiletry products such as shower gels, bar soaps, after - shave lotions and as a pH regulator in liquid soaps and shampoos. Moreover, the addition of this in bar soaps reduces water loss during storage, thus reducing the risk of brittleness and cracks.
- In the construction industry as a retarded and water-reducer for concrete.
- In metal treatment as a sequestering agent for metal ions.
- Bottle washing as a controller of heavy metal and harness ion.
- In the textile industry as a sequestering agent for heavy metal ions.

Gluconic Acid

Application & Uses :

- In metal cleaning formulation for rust and stain removal of metal surfaces.
- In metal finishing baths for aluminium etching & In metal plating processing baths.
- In high performance metal degreasers.
- In cleaning formulations for removal of calcium scales and labels.
- In textiles industries as stabilizers for dye baths and bleach baths.
- In leather tanning and dyeing processes.
- In mortar and concrete admixes as retarder and plasticizer (after neutralization with alkali).
- As raw material for the manufacturer of gluconate salts like Calcium, Sodium, Potassium, Manganese.

Glucono - Delta - Lactone

Application & Uses :

- This product is a multifunctional food additive and mainly used as protein coagulant, sour agent, swelling agent, preservative, flavouring agent, chelating agent, colour retention agent etc.
- It is widely used in food, commodity chemical, pharmaceutical, cosmetics, plastics and resin modifying, electroplating, polishing, metal cleaning, organic synthesis and other aspects.

Calcium Gluconate

Application & Uses :

Human pharmaceutical Industry :

Calcium is an essential element of tissue and blood which contains approximately 10 milligrams per 100 millilitres. The average daily requirement of calcium is 500milligrams but larger amounts are necessary during periods of growth.

- Calcium Gluconate are used to treat acid burns.
- also used as a cardio protective agent in hypercalcemia.
- Calcium Gluconate can be used as an emulsifier, stabilizer, thickener & to control pH levels of some foods.

Food Industry :

Frequently calcium gluconate is added to food for its nutritional / health value example., in baby food, fruit juice, biscuits, health foods etc., another use is the incorporation of calcium gluconate in order to increase the speed of reaction.

Veterinary Pharmaceutical Industry :

Here Calcium gluconate is used for the treatment of hypocalcaemia in cases of milk fever and gross tetany. Calcium gluconate is the product of choice for such treatment, because it has no irritating effects on the body tissue.



Sodium Gluconate

Application & Uses :

- In the construction industry, as a retarder and water reducer for concrete.
- In metal treatment, as a sequestering agent for metal ions.
- In bottle washing, as a controller of heavy metal and harness ions.
- In the textile industry, as a sequestering agent for heavy.
- Metal ions and used as iron deposits preventor.
- Detergent in bottle washing.
- Metallurgy (alkaline de-rusting).
- Additive in cement.
- In paper industry.

Potassium Gluconate

Application & Uses :

- In the construction industry, as a retarder and water reducer for concrete.
- Stabilizes blood pressure, regulates heart rhythm.
- Control nervous system and muscle contractions.
- Regulates water balance and alkalinity of body fluids as well as the transfer of nutrients to cell.
- Potassium nutrition enhancer: Used in dairy products.

Propionic Acid

Application & Uses :

- Propionic Acid inhibits the growth of mold and some bacteria at the levels between 0.1 and 1% by weight.
- Propionic Acid is consumed as a preservative for both animal feed and food for human consumption.
- Propionic Acid is also useful as an intermediate in the production of other chemicals, especially polymers.
- In more specialized applications, Propionic Acid is also used to make pesticides and pharmaceuticals.
- The esters of Propionic Acid have fruit-like odors and are used as solvents or artificial flavorings.
- Ammonium Propionate derived from Propionic Acid is used as Anti-Mold Agent.
- Propionic Acid also finds application as Flavoring Agent, Herbicide Intermediate, Pharmaceutical Intermediate, Dye Intermediates, Textile and Rubber Auxiliaries, Plastic and Cosmetics.

Calcium Propionate

Application & Uses :

Preservative in Bakery Products, Animal Feed, Calcium Supplement etc. The Calcium Propionate is used as a preservative in wide variety of products such as bread, baked goods, processed meat etc.

Sodium Propionate

Application & Uses :

- Sodium Propionate is widely used in Food Production as buffer, leavening agent and preservative in food production.
- Sodium Propionate is used in Beverage industry.
- Sodium Propionate is widely used as intermediate in Pharmaceutical.
- Sodium Propionate is used as preservatives in Cosmetics.
- Sodium Propionate is used as fungicide in agriculture / as feed additive in Animal feed to inhibit the mold.

Prathista is a manufacturing company, producing various NON GMO Feed supplements for live - stock applications & also Eco friendly agricultural in-puts / nutritional fertilizers with OMRI listing as per USDA norms.

Prathista is a manufacturing company with pollution free TECHNOLOGIES

Prathista is a company across the Globe to introduce Biological means Nano Technology in Agricultural segment

Prathista is a trusted partner for Worldwide Customers



www.prathista.com

Prathista - an India Based Multinational Company



CERTIFICATIONS FOR PRODUCTS & SERVICES

- GMP as per DMF
- ISO 9001, 14001 & OHSAS 18001
- KOSHER
- HACCP (Hazard Analysis Critical Control Points)
- HALAL
- ISO 22000 : 2005 (Food Safety Management System)
- US - FDA
- FSSAI - Govt. of India



PRATHISTA INDUSTRIES LIMITED

AN ISO : 9001, 14001 & OHSAS 18001 CERTIFIED COMPANY

Regd. Office: 1-5-1015/80 & 81, Vaishnavi Bhavan,
Father Balaiah Nagar, Manjeera Nagar Colony,
Old Alwal, Secunderabad - 500 010. Telangana State, India,

Factory: Sy.No.273 & 274, S.Lingotam (Vill),
CHOUTUPPAL - 508252, Dist. Nalgonda,
Telangana State India.

Ph : +91-40-27974989, 658916423 Fax: +91-40-27976650, Toll Free: 1800 425 1588
Email: info@prathista.com, Web: www.prathista.com