

## COMPANY PROFILE

We are working in the area of development of disease specific Herbal Extract, Enzymes and Probiotics solutions. With an unparalleled and unique combination of technical know-how, skilled resources and quality manufacturing, to open up exciting new avenues and offer products that surpass global standards.

Apex Biotechnol's quality is ratified by its exports to USA, Europe, Japan, China, Australia, Egypt, Russia, Korea, Hongkong, Veitnam etc.

**APEX BIOTECHNOL** has a team of experts committed to seeking the finest in nature and brings quality remedies to our clients. Also, we adopt only the state of the art technologies in the industry to give you products with assured quality, safety and efficacy.

We manufacture our products in strict accordance with quality management system during the whole entire production process. "reliable quality and excellent service" is our commitment to every customers, We firmly believe our customer's success is our success. At **APEX BIOTECHNOL** we are always committed to giving our customers the reliable products and services that they expect and deserve.

## VISION & MISSION

### OUR VISION

Our vision is to be the best in serving our customers and to provide a complete solution for healthy living by producing innovative and premium quality products from natural resources.

### OUR MISSION

- ¥ Provide highest quality standardized products and services to our clients by adhering to Good Manufacturing Practices as known in the industry
- ¥ Introduction of innovative new products from natural resources through continuous research by utilizing advanced technologies
- ¥ Operate and grow at a profitable rate by catering to the needs of the ever changing market scenario.

### OUR VALUES

- ¥ To build long lasting, cherished and trusted relationships by maintaining a level of integrity in the interactions with the clients.
- ¥ To adopt the best practices in the industry and follow stringent processes and systems so as to provide assured quality products all year round.
- ¥ To provide our employees an environment where they can accomplish their potential and continue to grow in an ambience of excellence.
- ¥ To carry out our responsibility towards the environment by supporting and adopting sustainable practices, by building partnership with farmers and Government organization committed to environment, health and sanctity of nature.

## MANUFACTURING

Apex Biotechnol is an ISO 9001:2015, HACCP and a WHO-GMP certified company. We are working in the area of development of disease specific Herbal Extract, Enzymes and Probiotic solutions. With an unparalleled and unique combination of technical know-how, skilled resources and quality manufacturing, to open up exciting new avenues and offer products that surpass global standards. Apex Biotechnol's quality is ratified by its exports to USA, Europe, Japan, South Africa, Australia, Canada, Egypt, China etc. The company with its strong technical and marketing teams, extends unparalleled customer service and builds strong relationships.

We are a quality system for our manufacturing unit which makes us pioneers in providing better quality Nutraceutical, enzymes and Probiotics product to our clients for other product requirements. Quality agreement and other processes which are a requirement for a smooth momentum of a manufacturing facility are maintained and complied. The research and development unit in our facility are utilized to test the product safety. Our suppliers of raw material also follow the Ethical code of conduct that are laid down by the FDA congruently produce an effective cutting edge finished product

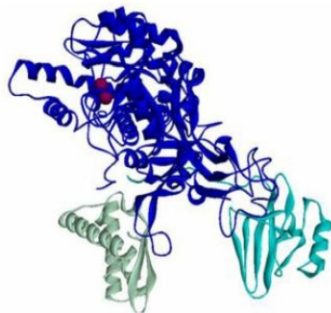
The guidance that we follow describes our current thinking on defining, establishing, and documenting the responsibilities that we lay on our suppliers and third party involved in the manufacturing of drugs with the subject to Current Good Manufacturing Practice (CGMP). In particular, we lay guidelines in the product manufacturing and describe how parties that are involved in the facility of preparing of drugs can follow and utilize Quality Agreements to delineate the responsibilities and assure drug quality, safety, and efficacy to the clients.





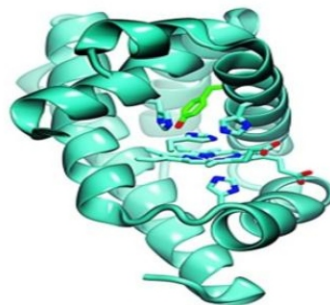
## WHAT ARE ENZYMES?

Enzymes are biological catalysts (also known as biocatalysts) that speed up biochemical reactions in living organisms. They can also be extracted from cells and then used to catalyze a wide range of commercially important processes. For example, they have important roles in the production of sweetening agents and the modification of antibiotics, they are used in washing powders and various cleaning products, and they play a key role in analytical devices and assays that have clinical, forensic and environmental applications. The word 'enzyme' was first used by the German physiologist Wilhelm Kühne in 1878, when he was describing the ability of yeast to produce alcohol from sugars, and it is derived from the Greek words en (meaning 'within') and zyme (meaning 'yeast').



## APPLICATIONS

- **Industrial catalysts:** Acid proteases, Alkaline proteases, Aminoacylase,  $\alpha$ -Amylase, Amyloglucosidase,  $\beta$ -Galactosidase, Glucose isomerase, Penicillin acylase.
- **Therapeutic agents:** L-Asparaginase, Urokinase
- **Analytic reagents:** Glucose oxidase, Luciferase, Peroxidase, Urease
- **Manipulative Tools:** Lysozyme, Nucleases
- **Detergents:** Protease, Cellulase, Lipase, Amylase
- **Brewing Industry:** Pectinase, Protease, Beta-glucanase
- **Textiles:** Amylase
- **Animal Feed:** Xylanase, Phytases, Proteases
- **Food and Food Processing:** Amylase, Glucoamylase, Glucose Isomerase, Arabinanase, Polygalacturonanase.



## LIST OF ENZYMES

Product	Quality Standard	Uses
Bromelain	600 GDU, 1000 GDU, 1200 GDU, 2400 GDU, 2500 GDU	Reduces Inflammation, ulcerative colitis, pulmonary edema. Stimulate muscle contractions, preventing cancer and improve absorption of antibiotics.
Serratiopeptidase (EC Coated/Powder)	2000 - 2600 IU/mg (IP)	Used as an analgesic in painful conditions including back pain, osteoarthritis, rheumatoid arthritis, osteoporosis, fibromyalgia, carpal tunnel syndrome, migraine headache, inflammation including sinusitis, laryngitis, sore throat, thrombophlebitis, ulcerative colitis, Crohn's disease and inflammatory bowel disease.
Papain	50 tu/mg, 100 tu/mg, 1000 tu/mg	Helps with digestion, treat parasitic worms, inflammation of the throat and pharynx, herpes zoster symptoms, sore muscles, diarrhea, hay fever, runny nose, psoriasis, infected wounds, sores and ulcers.
Alpha Galactosidase		hydrolyzes molecules from glycolipids and glycoproteins found in complex sugars
Alpha amylase/Fungal Diastase	1:2000, 1:5000, 1: 10000	Used as digestive aid
Trypsin	1:250 Units/mg, 1:2000 Units/gm	Speeds up biochemical reactions
Trypsin-Chymotrysin	6:1	Hastens repair of traumatic, orthopedic and surgical injuries.
Chymotrypsin	400 USP units/mg	Reduce abscesses, ulcers, surgery, traumatic injuries, help to loosen phlegm in asthma, bronchitis and sinus infections.
Pepsin	1:3,000 NF, 1:10,000 NF, 1:15,000 NF	Used as digestive aid
Pancreatin	IP, 4NF, 8NF, USP, IP	Used as digestive aid
High Lipase Pancreatin	Amylase : 400 USP unit /mg Lipase: 100 USP unit /mg Protease: 400 USP unit /mg	Used as digestive aid
Lipase	2000 iu/gm – 50000 iu/gm	Used for ingestion, Heartburn, allergy to gluten in wheat products, Crohn's disease and cystic fibrosis.
Invertase	10000 iu/gm	Used for ingestion, as a supplement, as replacement therapy (e.g., in chronic pancreatitis, cystic fibrosis, cancer of the pancreas)
Protease (Alkaline, Neutral, Acidic)	20000 iu/gm	Used as digestive aid
Lactase	10000 ALU/gm	Enzyme supplement used in lactose intolerance

Product	Quality Standard	Uses
Nattokinase	2000FU/g - 60000FU/g	Used for cardiovascular disease, Hyperlipidemia, Hypertension, Deep vein thrombosis, atherosclerosis, varicose veins, peripheral artery disease and hemorrhoids.
Isomerase	IP,USP	Used as digestive aid
Dextranase	1000 iu/gm 100000 iu/gm	Synthetic blood volume expander
Lysozyme	20000 IU- 30000 IU	Used in food and as dietary supplement
Beta Glucanase	40%-70%	Used in treatment of Diabetes, flu, dermatitis, eczema, ulcerative colitis, Crohn's disease, fibromyalgia, rheumatoid arthritis and multiple sclerosis
Transglutaminase	120 IU, 240 IU	Enzyme approved for use as a binder to form smaller cuts of meat into a larger serving of meat
Co-enzyme Q10	98.0% - 101.0%	Used in treatment of Cardiac failure, Hypertension, Parkinson's disease and prevent migraine
Cellulase	1000 IU-200000 IU	Digests fiber
Xylanase	1000 IU-200000 IU	Used in food industry
Glucose Oxidase	1000 IU-10000 IU	Antioxidant
Mucolase	1000 IU-50000 IU	Break down mucus
Kallidinogenase	25 U/mg & 50 U/mg	Peripheral vasodilator
Phytase	1000 IU-10000 IU	Used as digestive aid for animals
Mannanase (Acidic, Alkaline, Neutral)	1000 IU-10000 IU	Breakdown complex polysaccharides
Pectinase	1000 IU-100000 IU	Helps to increase the bioavailability of sugar in blood.
Hemicellulase	1000 IU-100000 IU	Digests fiber



## WHAT ARE PROBIOTICS?

Probiotics are live microorganisms (mostly bacteria) that colonize the gut and provide beneficial effects. Probiotics are different from other types of bacteria in that they are considered “good” bacteria or non-pathogenic in healthy people. Within our gut there are over 500 different types of beneficial bacteria. Bacteria are a normal part of our microflora. The bacteria in the gut have several beneficial functions such as inhibiting the growth of pathogenic bacteria, aiding in digestion, and B vitamin synthesis.

### How do we know which Bacteria are Probiotics?

In order for a bacterium to be considered a probiotic, it must meet the following criteria:

- It is a microbial organism which is not harmful.
- It remains alive during processing and the shelf life of the food.
- It must survive digestion and remain alive in the gut.
- It is able to bring about a response in the gut.
- It is associated with health benefits.

## APPLICATIONS

- Aid in Lactose digestion
- Resistance to enteric pathogens
- Anti-colon cancer effects
- Small bowel bacterial overgrowth
- Immune system modulation
- Allergy
- Blood lipids, Heart disease
- Antihypertensive effects
- Urogenital infections
- Infection caused by *Helicobacter pylori*
- Hepatic encephalopathy

PRODUCT NAME		STANDARD
Bacillus coagulans	:	300 Billion
Bacillus clausi	:	300 Billion
Bacillus subtilis	:	300 Billion
Bacillus licheniformis	:	300 Billion
Bifidobacterium longum	:	300 Billion
Lactobacillus acidophilus	:	300 Billion
Lactobacillus rhamnosus	:	300 Billion
Lactobacillus brevis	:	300 Billion
Lactobacillus bulgaris	:	300 Billion
Lactobacillus reutii	:	300 Billion
Pediococcus acidilactici	:	300 Billion
Streptococcus thermophilus	:	300 Billion
Saccharomyces boulardii	:	300 Billion



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