

PAC ZYME

A Novel Bio Engineering



PAC Bright

Detergent Enzyme

 **PAC**
Bio Fungbact Pvt. Ltd.
AN ISO 9001 : 2008 CERTIFIED COMPANY

Pac Bright for the Detergent Industry : 🌸🌸🌸

Our engineered Detergent Enzyme Solutions help customers meet their challenges, such as activity at low temperature washing performance, sustain ability, cost stability and issues related to water hardness, removal of difficult stains and shorter wash cycles.

We offer state-of-the-art technologies that enable new business opportunities for customers and our long-term solutions more than meet industry requirements. Our products perform well in low temperatures, remain stable under variable and extreme conditions, are cost effective and remove difficult stains easily.

Sophisticated R&D facility up benches our products at new heights of technology to satisfy every customer's needs.

We are responsive and agile in solving problems related to enzymes. We deliver customized and flexible services either directly or through carefully selected value-added distributors. As market fragmentation is driven by consumers expecting more from detergents, Pac Bright works with customers to deliver engineered solutions to meet these diverse needs.

Pac Bright Formulation : 🌸🌸🌸

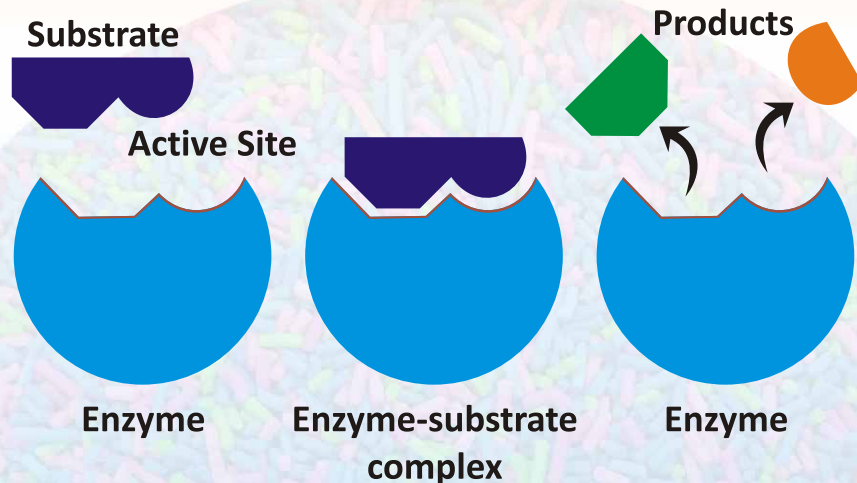
Pac Bright is a combination of four different enzymes which are Protease, Lipase, Amylase and Cellulase. Our enzyme formulations are engineered in such a way that it can be work with any type of detergent material with long lasting stability even at high alkaline pH, easy water solubility, cost sustain ability, storage durability which improves the quality of washing powder by many folds.

Why Pac Bright? 🌸🌸🌸

Our research trials reveals the truth that by adding PacBright in even in local detergents, its efficiency of stain removal and maintaining brightness of cloth was increases up to the mark, which can only be achieved by commercially well known and costlier detergent products available in market.

- Protease** : Blood, Dairy products, Egg, Body Soil, Baby Food, Meat, Fecal (Protein Based) Material, Human Sweat and Mud.
- Lipase** : Cooking oil, Makeup, Perfumes, Gasoline, Margarine/Butter, (Oil Based) Deodorant, Ring around collar, catch up, Sauces, Salad Oil and grease.
- Amylase** : Potatoes, Gravies, Custard, Chocolate, Starchy Food, Oat Meal (Starch Based) and Porridge.
- Cellulase** : Grass stains, leafy vegetable stains, and Farm stains as well as mainly degrade microfibril which are generated by repeated washing of garments. Helps in restoring shine and color of garments.

Mechanism of Enzyme Activity (Key & Lock Mechanism)



Enzymes fit their target substrates like a lock fits a key. A single enzyme will typically catalyse around 10,000 chemical reactions per second. This means that only a tiny amount of enzyme is needed to have a huge effect on a reaction.

The rate of enzyme activity depends on the amount of enzyme present, and also the temperature and pH of the reaction solution.

PAC Bright

Can reduce the environmental load of detergent products since they :

- ✿ Save energy and CO₂ emissions by enabling lower wash temperatures while maintaining washing performance.
- ✿ Partly replace other chemicals in detergents, such as surfactants.
- ✿ Enable compactation, reducing packaging and transportation costs.
- ✿ Are biodegradable, leaving no harmful residues.
- ✿ Have no negative environmental impact on sewage treatment processes.
- ✿ Do not present a risk to aquatic life.
- ✿ Promote washing at energy saving lower temperatures.
- ✿ Require lower levels of water consumption.
- ✿ Ultimately help clothes last longer.



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