



About BiOWiSH™

A Giant Leap in Biological Performance

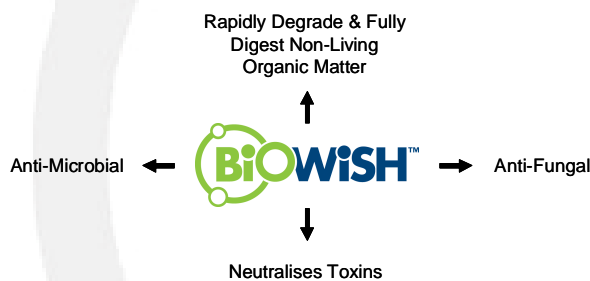
Fact Sheet

What is BiOWiSH™

BiOWiSH™ is a revolutionary biotechnology that harnesses natural microbial and enzyme functionality with a proprietary protein 'Super Catalase' that provides a significant biochemical rate acceleration. This is achieved through improving the kinetic rate of a broad range of enzymes. As such BiOWiSH™ can be considered a technology within the specialisation of proteomics.

BiOWiSH™ is a powerful core technology in that it accelerates natural biochemical reactions thousands to hundreds of thousands times their normal rate. Combined with BiOWiSH™'s 4 core capabilities this makes BiOWiSH™ a technological platform of immense value in environmental management and human and animal health.

BiOWiSH™ Core Capabilities



BiOWiSH™ is created from a combination of human friendly active microbials in a multi-stage manufacturing process that yields beneficial enzymes, super catalysing co-enzymes and co-factors. It is a natural 100% organic culture and replaces harsh chemicals in many of its applications. BiOWiSH™ rapidly digests waste products comprising fats, protein, carbohydrates and cellulose into their final end products of Carbon dioxide, Nitrogen gas, Oxygen, Water and heat energy.

In-vivo this technology completes digestions processes and eliminates toxins and waste products providing a systemic benefit. In addition the ability to rapidly break down a wide range of waste products means that BiOWiSH™ can assist with a wide range of clinical conditions.

There is virtually no biological process that cannot be enhanced with BiOWiSH™.

BiOWiSH™ has current applications in the following areas:

- Odour removal
- Cleaning / Degreasing
- Waste Management
- Water Treatment
- Agribusiness
- Bio-remediation
- Animal Husbandry
- Aquaculture
- Biogas production
- Human Health Supplements
- Pharmaceuticals
- Cosmetic
- Pet
- OEM

Each application includes a range of products that are:

- 100% organic
- 100% Biodegradable.
- Non-toxic, non-chemical, non-pathogenic
- 100's to 1,000's of times more effective than existing products.
- Very fast acting - Amazing in fact.
- Operative at low dosage rates.
- Cost effective.
- Harmless to humans and the environment.
- Assist with some of the human race's greatest and most pervasive human issues such as health, sanitation, water treatment and sustainable energy production

How was BiOWiSH™ developed?

BiOWiSH™ has been developed through a 13 year research project. After researching the water sanitisation properties of various natural environments, a particular area in the Gulf of Thailand was identified as possessing remarkable abilities to rapidly remove a wide range of pollutants from urban run-off waters.

A comprehensive study into the microbial population of mangrove soil samples identified a number of previously undiscovered bacteria strains and rare yeasts amongst the hundreds of thousands typically

BiOWiSH™

The world's most powerful Enzyme technology



found in mangrove soil. These microbes and their resultant enzymes were shown to be the catalysts of the bio-chemical reactions that were able to rapidly remove the waste products from the water and included the 'Super Catalase' enzyme.

The next phase of development was to unlock the secret to growing these microorganisms symbiotically and to optimize the production of their respective enzymes and metabolites. Then an advanced form of vacuum freeze drying was employed putting them into a stabilised product form. The result is the core BiOWiSH™ technology which is now deployed across various applications. The BiOWiSH™ super microbes fight pathogenic and odour causing bacteria, rapidly digest waste compounds, control pollution and generally bring balance back to our environment.

Further development then led to the development of highly purified forms of BiOWiSH™ specifically for cosmetic and human health applications.

Who Discovered BiOWiSH™?

The lead scientist in the development process was Dr W. Chantawichayasuit.

Educational Background:

- 1) B.Sc. degree (Animal Husbandry) in 1981
- 2) M.Sc. (Agriculture, Major in Animal Nutrition) in 1986
- 3) M.B.A. (General Management) in 1987
- 4) Ph.D. degree (Animal Nutrition) in 1989

Dr Chantawichayasuit is a certified microorganism applications expert possessing a wide knowledge of international biological research streams. Combined with his extensive experience in laboratory and field research together with his wisdom and creativity, he has created a truly unique microbial enzyme based technology to benefit mankind.

Key Components of BiOWiSH™

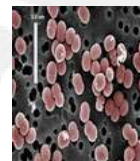
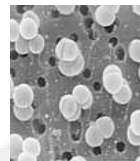
BiOWiSH™ is a revolutionary microbial technology consisting of three beneficial bacteria and two yeasts acting in symbiosis creating enzymes and powerfully working to rapidly digest fats, protein, carbohydrate, cellulose, bad organic odour and waste products, making BiOWiSH™ perfect for a wide range of diverse applications.

BiOWiSH™ is formulated from 11 pure strain active ingredients which are stored in certified biological warehouses in the USA. These are then cultured and fermented in a multi-stage process with a specially developed combination of bio-vitamins and bio-minerals that are then further processed into the 3 forms of BiOWiSH powder ready for packaging or inclusion in other products.

Six of these active ingredients disappear in the production process and the remaining five pure beneficial biotic microbes remain in our products for environmental or animal health use.

The five remaining microbes include:

- *Pediococcus pentosaceus* Mees (**bacteria**)
- *Bacillus subtilis* (**bacteria**)
- *Pediococcus acidilactici* (**bacteria**)
- *Dekkera anomala* (**Yeast**)
- *Yamadazyma farinose* (**Yeast**)





Composition of BiOWiSH™

1. Group of human and environmentally friendly bacteria.
2. Yeast
3. Metabolite Substrates
 - Digestive/Metabolic Enzymes
 - Organic acids
 - Bacteriocines/ Iturins / Killer Toxins
 - Growth Factors
 - Vitamins
4. Dried Bran Carrier (also provides nutrients for microbials).

Forms of BiOWiSH™

BiOWiSH™ is available in 3 different forms from which we formulate

BiOWiSH products:

- 1. BiOWiSH™ Powder**
The active microbial formulations used in environmental management, cleaning and animal health.
- 2. BiOWiSH™ Food Grade**
A formulation that is further fermented to contain a high level of enzymes, Super Catalase and metabolites but no active microbials.
- 3. BiOWiSH™ Cosmetic Grade**
BiOWiSH Food Grade with a protective cellulose coating that allows the product to be stored in solution with mechanical activation.

What Makes BiOWiSH™ so unique?

BiOWiSH's superior performance across its many applications can be summarised as follows:

- 1. Very High Speed**
'Super Catalase' the proprietary enzyme in BiOWiSH™ makes products formulated with our technology thousands of times faster than what was previously possible.
- 2. Broad Functionality**
BiOWiSH™'s 4 core capabilities of rapidly breaking down organic waste, anti-microbial, anti-fungal and toxin neutralisation, with the speed enhancement makes BiOWiSH™ a truly unique technology.
- 3. Broad Spectrum**
BiOWiSH™ is formulated to create a very diverse group of catabolic hydrolysing enzymes. This provides an ability to rapidly and fully digest all non-living matter that is organic in origin.
- 4. Broad Operative Range**
BiOWiSH™ due to its kinetic rate enhancement technology is able to operate in a much broader range of environmental conditions than previously available technologies.

In combination these aspects of performance has meant that BiOWiSH™ is providing solutions to many of mankind's most pervasive issues and in many cases is the first technology that provides an environmentally, clinically and cost effective solution. BiOWiSH™ is the ideal solution for a wide range of diverse applications some of which have been highlighted in this document.

Visit the BiOWiSH Technologies website –

www.biowishtechnologies.com and read more about how this amazing technology works and see the wide range of products we have created using the BiOWiSH™ technology.

We are constantly developing our range of products and applications using the remarkable properties of our core technology which is both groundbreaking and versatile.

By making the choice to use one of the core BiOWiSH™ range of products you will soon discover why BiOWiSH™ is probably one of the most exciting and powerful biotechnologies to emerge this century.

BiOWiSH Technologies - Biological Help for the Human Race



BiOWiSH Technologies Pty Limited

Website: www.biowishtechnologies.com

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BiOWiSH™

The world's most powerful Enzyme technology