



# **BioActive Polyphenols for the production of Functional Foods & Beverages**

Application of unique patent-protected polyphenolic extracts with clinically proven health benefits

**IBCC**

## Polyphenols and their role in the protection of human health

Numerous scientific studies prove that the consumption of food products with high ORAC (oxygen radical absorbance capacity) antioxidative values can increase the levels of antioxidants in human body, thus helping prevent premature aging and protect against free radicals and oxidative stress.

Polyphenols are plant compounds scientifically proven to have strong antioxidant activity. Because of their specific biological activities they contribute to the proper functioning of the human body (maintaining health, improving and strengthening the psycho-physical strength, ability and freshness, vitality,...).

Polyphenols are particularly effective in **PROTECTING THE CARDIOVASCULAR SYSTEM**, since they protect the heart and blood vessels, promote better blood circulation, inhibit oxidation of LDL (bad) cholesterol, and thus act preventative for the development of cardiovascular and neurodegenerative diseases. Polyphenols also **PROTECT THE BODY AGAINST FREE RADICALS** and **STRENGTHEN THE IMMUNE SYSTEM**. This way they protect the body from the occurrence of various illnesses and premature aging.

Due to a better understanding and recognition of the link between diet and health there is a growing consumption and interest in the World for *Functional foods and beverages* - specially designed food products containing natural nutrients (vitamins, minerals, phytosterols, polyphenols, ...) with biologically active effects that enrich the conventional foods, and have a beneficial effect on the health of a human organism.

***“The purpose of Functional foods and beverages is to act preventative - to prevent the occurrence of illnesses, as well as to improve the physical and mental state of a human being.”***



## Bioactive polyphenols for the production of Functional foods and beverages

To the food and beverage industries IBCC offers unique, **patent-protected**<sup>1</sup> extracts of bioactive polyphenols which are ideal as an all natural additive for the enrichment of foods and beverages and production of Functional foods and beverages with **clinically proven health benefits**<sup>2</sup>.

These structurally-unique polyphenolic extracts are produced from a special seed blend derived entirely from unfermented red and white varietal wine grape seeds. The polyphenols are extracted using a patent-protected extraction process<sup>3</sup> (based on hot water, without solvents) that assures a **high level of bioactivity, stability, bioavailability (standardised to minimum 90%)** of polyphenols and **100% solubility in water and alcohol**.

These highly purified and concentrated spray-dried extracts are ideal for the production of high-value Functional foods and beverages:

- for the protection of the cardiovascular system (heart & vessels)
- for the improvement of blood circulation
- for the protection of human organism from free radicals and immunity boosting
- for the enhancement of physical endurance of athletes
- for the hydration and preservation of beauty and skin health
- for the detoxification of human body.

Our polyphenols have an **ORAC** value of exceptional **14,000 U/g** which makes them the most potent natural antioxidative compounds, while the **FDA no-objection GRAS status** provides evidence of their quality and safety.

### CHARACTERISTICS OF OUR POLYPHENOLIC EXTRACTS:

- ALL NATURAL - chemical free, GMO free
- PATENT-PROTECTED
- CLINICALLY PROVEN - original clinical studies
- HIGHLY BIOACTIVE - highest registered ORAC
- HIGHLY CONSISTENT
- RELENTLESSLY TESTED
- SATISFY VEGETARIAN, VEGAN, HALAL and KOSHER STANDARDS
- ALLERGEN FREE
- FDA GRAS APPROVED
- HIGHLY pH STABLE
- HIGHLY TERMOSTABLE
- WATER & ALCOHOL SOLUBLE
- VERTICALLY INTEGRATED SUPPLY

<sup>1</sup> US Patents: 7,651,707 - 7,767,235 - 8,075,929

<sup>2</sup> Original human/clinical studies conducted at the UC Davis Medical Center, Departments of Preventative Cardiology and Internal Medicine and Nutrition, California (USA) and the National Center for Food Safety and Technology, the Illinois Institute of Technology, Illinois (USA)

<sup>3</sup> US Patent 6,544,581



According to the FDA GRAS, our polyphenolic extracts can be added to the following foods:

- Water and non-alcoholic beverages: flavoured water, fruit juices, fruit flavoured beverages, fruit flavoured beverage mixes, carbonated fruit flavoured beverages
- Dairy products: milk, yoghurts, cheeses, flavoured milk products, milk-based meal replacements, reduced- or non-fat milks, sour cream, buttermilk, ice creams and other frozen milk desserts, puddings and fillings, gravies and sauces, ...
- Baked goods and baking mixes: bread, pastries, muffins, biscuits, nutrition bars, sport energy bars, ...
- Grain products and pastas: hot and cold breakfast cereals, grain-based meals, macaroni and noodle products, rice and other cereal grains, ...
- Canditory products: hard candy, jams and jellies, soft candy, sweet sauces, toppings and syrups, chewing gums, condiments and relishes, confections and frostings, gelatins, ...

For more information or to order:

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IBCC is a producer of Premium BioMedical products in the Health Prevention sector. All products are produced under the highest industry standards (NSF GMP, ISO, HACCP) which assure consistent quality, safety and excellence. The products possess unique competitive advantages: clinically proven health benefits and world patent protections.