

NanoPro^{PRP}: Whey More than Just Another Whey Protein!

If all you want to do is to build big muscles, then frankly almost any whey protein will do. But if you want the “state of the art” in a *zoonutrient* dense “Super Food” designed to help optimize tissue repair, antioxidant status, liver and intracellular detoxification, and powerfully modulate immune function, then you want to learn more about NanoPro^{PRP}, *Whey Protein with Colostrum Peptides!*

Understanding the Difference: Antioxidant and Detoxification Power

Most any whey protein will have a *high biological value* (HBV), supplying complete and balanced proportions of bioavailable amino acids. Whey protein isolates (WPI) are favored over whey protein concentrates (WPC) by most weight lifters and dieters because WPI is usually 90%+ pure protein, as compared to up only 80% with WPC, and contains much less lactose (milk sugar), the cause of milk intolerance, and saturated fat and cholesterol than WPC. Regardless, *undenatured* whey has another very important and unique ability: it promotes the endogenous (inside the body) production of glutathione, our bodies’ most important antioxidant and detoxifier. However, this ability is destroyed by excess heat or certain other methods of processing whey, like *hydrolysis*, as in whey protein hydrolysate (WPH). When this occurs, the whey is said to be “denatured”. Therefore, it is important that you use *certifiably* undenatured whey if you want to maximize the antioxidant and detoxification benefits. To enhance glutathione production even more, NanoPro^{PRP} contains *organic selenium*, the rate limiting mineral in glutathione production. NanoPro^{PRP} then further enhances the antioxidant and detoxifying power of its *undenatured* whey by adding *glutathione* as such to the formula. To protect this very small *tri-peptide* (three amino acid chain) from digestive juices, BioPharma micro-encapsulates the glutathione in natural phospholipids, part of its SuperSorb® Enhanced Delivery Systems.

Understanding the Difference: Tissue Repair and Immune Function

It should be recognized that when WPI is used, some of the vitamins, minerals, and immune factors are lost in isolating the protein. However, *colostrum*, which is the “first milk” of all mammals, is by far the most *zoonutrient* dense of all foods, not only incredibly rich in vitamins but also *growth factors* and *immune factors*. The growth factors in whey are thought to support healing and regeneration of most tissues in the body. The immune factors are of two main types, *passive* and *active*. The best known passive immune factors are the *immune globulins*, especially IgG. These proteins have important, but largely local and temporary benefits while in the intestines. The most powerful of the active immune peptides in colostrum are called *Proline Rich Polypeptides (PRP)*. These can actively balance the immune system to:

1. better fight off infection and kill malignant cells, *and*
2. tune down the immune system so it is not over-active, as in the case of allergy, auto-immune disease and various “sensitivities”, to otherwise normally more or less harmless substances.

These immune and growth factors are very delicate and subject to “denaturization” (inactivation) by the digestive juices. Therefore, BioPharma also micro-encapsulates these delicate peptides in its protective patented SuperSorb® technology. To further enhance the tissue repair and immune functions, BioPharma extracts PRPs and growth factors from a separate colostrum source, micro-encapsulates them, and adds them back to its colostrum, creating in essence a “Super Colostrum”, extraordinarily high in bioavailable active immune and growth factors! Finally, to further enhance the immune function, help support optimal blood lipids and “friendly” bacteria in the gut, and promote calcium absorption, NanoPro^{PRP} provides soluble fiber as VitaFiber™.

NanoProPRP: A Quantum Leap in Zoonutrition!

BioPharma’s flag ship product, NanoGreens¹⁰, *Fruits and Vegetables to the Power of 10*, was designed to be a “quantum leap in phytonutrition”. *Phytonutrients* are those chemicals in plants that provide so many benefits *beyond* vitamins and minerals. *Zoonutrients* are those chemicals in animal foods that provide benefits *beyond* protein, beyond fats and carbs for energy and vitamins and minerals. Just so NanoPro^{PRP}, *Whey Protein with Colostrum Peptides*, has been proven to be much more than just another whey protein, but a “quantum leap in zoonutrition”.^{1,2}

www.biopharmasci.com/downloads/PRPAnimalstudy.ppt www.biopharmasci.com/downloads/NPandNGLoganBPAbwgraph.pdf