

# 5PP 5 Protection Plus

**NOTICE:** This formula now contains an ingredient derived from milk.



## Clinical Applications

- Supports Improved Body Composition\*
- Supports Immune Function by Providing Immunoglobulins and Other Immune Factors\*
- Supports Healthy Cytokine Production\*
- Supports Intestinal Health\*
- Supports Detoxification\*

*5PP 5 Protection Plus represents an innovative approach to biotransformation for individuals whose health is constantly challenged. This all-natural, fructose-free formula includes ingredients that promote overall gastrointestinal health and support detoxification mechanisms and cytokine balance in the body. 5PP 5 Protection Plus features patented and proprietary ingredients, including 21 g of Vegan Protein Blend, a non-GMO, vegetable-based protein, as well as Immune Blend, Cell Support (glucoraphanin), and arabinogalactan, a prebiotic. Practitioners have reported best results when 5PP 5 Protection Plus is combined with a modified elimination diet.\**

All Zentigue Formulas Meet or Exceed cGMP Quality Standards

## Discussion

**Vegan Protein Blend** Zentigue's proprietary blend of pea protein concentrate, pea protein isolate, glycine, taurine, rice protein concentrate, and L-glutamine provides 21 g of plant-based protein per serving of 5PP 5 Protection Plus. Vegan Protein Blend is easily digested, is gluten-free, and achieves an amino acid score of 100%.<sup>[1,2]</sup> This amino acid profile supports protein metabolism and lean body mass. Aminogen® enhances protein digestibility and absorption.\*

**Immune Blend** is an immunoglobulin concentrate from colostrum whey peptides that delivers a minimum of 40% IgG immunoglobulin along with an array of compounds, including growth factors, sialic acid, lactoferrin, prolinerichpeptides (PRPs), oligosaccharides, and gangliosides. Each of these components provides the user with different and complementary health benefits, such as fundamental support of immune function and modulation, lean body mass, brain and thymus health, microbiota modulation, and cytokine balance.\*<sup>[3]</sup>

Oral consumption of immunoglobulins derived from colostrum is a means of supporting passive immunity, protecting the body, and eliminating unwanted molecules.<sup>[4-7]</sup> The most versatile, IgG, is capable of carrying out all of the functions of immunoglobulin molecules, accounting for Immune Blend's broad range of immune support effects.<sup>[8]</sup> Review of the research confirms that bovine colostrum supplementation confers other benefits, such as the maintenance of gastrointestinal integrity.<sup>[9-11]</sup> Oral immunoglobulins have been used in sports nutrition to support lean body mass,<sup>[12]</sup> physical exercise, and recovery following high-intensity training.<sup>[9,13]</sup> The 2.5 grams of immunoglobulins in each serving of 5PP 5 Protection Plus contribute to individual dosing requirements.\*

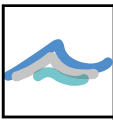
**Immune Blend** (glucoraphanin) This patented plant-based ingredient, also known as sulforaphane glucosinolate, is extracted from one of its most concentrated cruciferous sources—broccoli seeds.<sup>[14]</sup> An abundance of research demonstrates that when glucoraphanin is broken down to its active form, sulforaphane, it safely and effectively upregulates the body's natural phase II detoxification enzymes.<sup>[15-17]</sup> This activity in turn supports antioxidant activity and helps protect cells, cell membranes, and tissues from free-radical damage.\*

**Arabinogalactan** Sourced from the larch tree, arabinogalactan is a non-digestible, soluble dietary fiber that contains arabinose and galactose monosaccharides. It is considered an excellent source of fiber, favorably supports gut microflora as a prebiotic, and serves as a precursor to short-chain fatty acids, all elements that help support gastrointestinal health.\*<sup>[18,19]</sup>

\*These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure, or prevent any disease.

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5PP 5 Protection Plus



# Vanilla

## Nutrition Facts

Serving Size 2 Scoops (about 45g)  
Servings Per Container About 14

Amount Per Serving

Calories 160      Calories From Fat 30

% Daily Value\*

**Total Fat** 3g      5%

Saturated Fat 1g      5%

**Sodium** 360mg      15%

**Potassium** 390mg      11%

**Total Carbohydrate** 16g      5%

Dietary Fiber 6g      24%

Sugars 6g

**Protein** 21g      42%

Calcium 4%      Iron 25%

Not a significant source of trans fat, cholesterol, vitamin A, or vitamin C.

\* Percent Daily Values are based on a 2,000 calorie diet. Your Daily Values may be higher or lower depending on your calorie needs:

Calories: 2,000      2,500

Total Fat      Less than 65g      80g

Saturated Fat      Less than 20g      25g

Cholesterol      Less than 300mg      300mg

Sodium      Less than 2,400mg      2,400mg

Potassium      3,500mg      3,500mg

Total Carbohydrate      300g      375g

Dietary Fiber      25g      30g

Protein      50g      65g

**INGREDIENTS:** Vegan Protein Blend (Zentigue's proprietary blend of pea protein concentrate, pea protein isolate, glycine, taurine, rice protein concentrate, and L-glutamine), dried cane syrup, fiber complex (inulin (from chicory) and oat fiber), natural flavors (no MSG), Immune Blend (immunoglobulin protein concentrate), sunflower oil, arabinogalactan, tripotassium citrate, cellulose gum, xanthan gum, medium-chain triglyceride oil, Aminogen® (proprietary plant enzyme blend), Cell Support (SGS™ broccoli seed extract), guar gum, stevia leaf extract, and silica.

**CONTAINS:** Milk

## Directions

Blend, shake, or briskly stir 2 level scoops (45 g) into 8-12 oz chilled water and consume one to two times daily, or as directed by your healthcare practitioner. Adjust amount of water to desired sweetness and thickness.

Consult your healthcare practitioner prior to use. Individuals taking medication should discuss potential interactions with their healthcare practitioner. Do not use if tamper seal is damaged.

Per Serving (2 Scoops) of 5PP 5 Protection Plus:

Immune Blend	2.5 g
Arabinogalactan	1 g
Glucoraphanin (from Cell Support)	30 mg



Aminogen® is a Registered Trademark of Triarco Industries. Aminogen® is protected by U.S. Patent No. 5,387,422.



Produced under US patents 5,725,895; 5,968,505; 5,968,567; 6,177,122; and 6,242,018 licensed from Brassica Protection Products LLC; SGS is a trademark of Brassica Protection Products LLC.

## Typical Amino Acid Profile Per Serving:

Alanine	926 mg	Methionine	271 mg
Arginine	1,766 mg	Phenylalanine	1,157 mg
Aspartic Acid	2,446 mg	Proline	966 mg
Cysteine	252 mg	Serine	1,232 mg
Glutamic Acid	3,520 mg	Threonine	500 mg
Glycine	2,883 mg	Taurine	887 mg
Histidine	544 mg	Tryptophan	227 mg
Isoleucine	949 mg	Tyrosine	851 mg
Leucine	1,793 mg	Valine	1,120 mg
Lysine	1,597 mg		

## References

1. Fredrikson M, Biot P, Alminger ML, et al. Production process for high-quality pea-protein isolate with low content of oligosaccharides and phytate. *J Agric Food Chem*. 2001 Mar;49(3):1208-12. [PMID: 11312837]
2. Gausserès N, Mahé S, Benamouzig R, et al. [15N]-labeled pea flour protein nitrogen exhibits good ileal digestibility and postprandial retention in humans. *J Nutr*. 1997 Jun;127(6):1160-65. [PMID: 9187631]
3. Godhia M, Patel N. Colostrum—its composition, benefits as a nutraceutical: a review. *Curr Res Nutr Food Sci*. 2013;1(1):37-47. <http://dx.doi.org/10.12944/CRNFSJ.1.1.04>
4. Hurley D. Establishment of the effects of colostrally derived protein food supplements on human and animal health [dissertation]. Brookings, SD: South Dakota State University; 1994.
5. Hurley WL, Theil PK. Perspectives on immunoglobulins in colostrum and milk. *Nutrients*. 2011 Apr;3(4):442-74. Review. [PMID: 22254105]
6. Rump JA, Arndt R, Arnold A, et al. Treatment of diarrhoea in human immunodeficiency virus-infected patients with immunoglobulins from bovine colostrum. *Clin Investig*. 1992 Jul;70(7):588-94. [PMID: 1392428]
7. Schaller JP, Saif LJ, Cordle CT, et al. Prevention of human rotavirus-induced diarrhea in gnotobiotic piglets using bovine antibody. *J Infect Dis*. 1992 Apr;165(4):623-30. [PMID: 1313067]
8. Lotze MT. *Measuring Immunity: Basic Science and Clinical Practice*. London, UK: Academic Press; 2004:160.
9. Davison G. Bovine colostrum and immune function after exercise. *Med Sport Sci*. 2012;59:62-9. doi: 10.1159/000341966. [PMID: 23075556]
10. Greenberg PD, Cello JP. Treatment of severe diarrhea caused by *Cryptosporidium parvum* with oral bovine immunoglobulin concentrate in patients with AIDS. *J Acquir Immune Defic Syndr Hum Retroviro*. 1996 Dec 1;13(4):348-54. [PMID: 8948373]
11. Kelly GS. Bovine colostrums: a review of clinical uses. *Altern Med Rev*. 2003 Nov;8(4):378-94. Review. [PMID: 14653766]
12. Antonio J, Sanders MS, Van Gammeren D. The effects of bovine colostrum supplementation on body composition and exercise performance in active men and women. *Nutrition*. 2001 Mar;17(3):243-7. [PMID: 11312068]
13. Shing CM, Hunter DC, Stevenson LM. Bovine colostrum supplementation and exercise performance: potential mechanisms. *Sports Med*. 2009;39(12):1033-54. [PMID: 19902984]
14. Brassica®. What is SGS? <http://sgs-broccoli.com/what-is-sgs/>. Accessed April 21, 2014.
15. Boddupalli S, Mein JR, Lakkanna S, et al. Induction of phase 2 antioxidant enzymes by broccoli sulforaphane: perspectives in maintaining the antioxidant activity of vitamins A, C, and E. *Front Genet*. 2012;3:7. [PMID: 22303412]
16. Sulforaphane glucosinolate. Monograph. *Altern Med Rev*. 2010 Dec;15(4):352-60. Review. [PMID: 21194251]
17. Fahey JW, Talalay P. Antioxidant functions of sulforaphane: a potent inducer of Phase II detoxification enzymes. *Food Chem Toxicol*. 1999 Sep-Oct;37(9-10):973-79. [PMID: 10541453]
18. Larch arabinogalactan. *Altern Med Rev*. 2000 Oct;5(5):463-66. [PMID: 11056416]
19. Kelly GS. Larch arabinogalactan: clinical relevance of a novel immune-enhancing polysaccharide. *Altern Med Rev*. 1999 Apr;4(2):96-103. Review. [PMID: 10231609]

## Does Not Contain

Wheat, gluten, yeast, soy, fish, shellfish, peanuts, tree nuts, egg, artificial colors, artificial sweeteners, or artificial preservatives.

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