

# Tri-Athlete Whey + IgG Immune Support & BCAA's



## Clinical Applications

- Source of High-Quality Protein for Individuals Requiring Protein Supplementation\*
- Promotes/Supports Healthy Body Composition\*
- Supports Immune Response\*
- Supports Healthy Intestinal Function\*
- Improves Glutathione (GSH) Levels\*

*Tri-Athlete Whey + IgG Immune Support & BCAA's, a natural, nutritionally advanced, bioactive whey protein concentrate, contains immunoglobulins that support the delicate balance of the body's immune system. The whey is sourced from New Zealand cows where herds are free from environmental contaminants and are not subjected to hormones and antibiotics that are commonly used elsewhere. This undenatured protein is a rich source of amino acids, including those needed for the synthesis of glutathione, an important antioxidant that can be depleted by stress. This formula is resistant to stomach acid and supports intestinal health. The 80% protein content supports healthy body composition.\**

All Merrikh Medical Formulas Meet or Exceed cGMP Quality Standards

## Discussion

Whey protein is one of the two major proteins in cow's milk. The New Zealand herds used for producing Tri-Athlete Whey + IgG Immune Support & BCAA's are not given hormones and are not intentionally infected with a pathogen to force them to make antibodies specific to that pathogen. Tri-Athlete Whey + IgG Immune Support & BCAA's is a whey protein, rich in immunoglobulins (antibodies) derived from very careful processing techniques under controlled temperature and pH. During a series of ultrafiltration steps, lactose and water are removed from a slurry of whey. Special care is taken to maintain the integrity of the antibodies and to optimize the protein complex. In comparison to fluid cow's milk and ordinary whey protein concentrate, Tri-Athlete Whey + IgG Immune Support & BCAA's contains significantly greater concentrations of proteins and immunoglobulins.\*

Tri-Athlete Whey + IgG Immune Support & BCAA's can be used not only as a high biological value protein source for healthy individuals but also to provide immunoglobulins to those in need. The immunoglobulins it contains are almost identical to those of the mammalian species and resist peptic digestion. The immune-balancing effect of immunoglobulins supports the body's normal defense mechanisms.\*<sup>[1,2]</sup>

Each antibody in Tri-Athlete Whey + IgG Immune Support & BCAA's (IgG1, IgG2, IgM, and IgA) has a specific role in immune function. IgM responds quickly to an antigen and specifically to bacteria and viruses. Later in the response, IgG1 and IgG2 attack viruses and toxins. IgA is critical in the body's immune system. The immunoglobulins also contribute to the humoral immunity of the gut-associated lymphoid tissue (GALT).\*

Among Tri-Athlete Whey + IgG Immune Support & BCAA's's ingredients is a high concentration of the branched-chain amino acids leucine, isoleucine, and valine, which can be used by skeletal muscle during stress and to support nitrogen utilization. The semi-essential amino acid arginine increases the activity of natural killer and lymphokine-activated cells as well as IGF-1.\*<sup>[1]</sup>

Cysteine and glutamate are found in higher concentrations in Tri-Athlete Whey + IgG Immune Support & BCAA's than in other high-biological-value proteins. These amino acids serve as precursors to glutathione,<sup>[3]</sup> an endogenous antioxidant especially needed during stress, exercise, and poor nutrition. Lactoferrin, alpha-lactalbumin, beta-lactoglobulin, and bovine serum albumin are other proteins in Tri-Athlete Whey + IgG Immune Support & BCAA's that contribute to glutathione synthesis and support immune function.\*<sup>[3,4]</sup>

In addition, supplementation with whey protein may support glucose metabolism and muscle protein synthesis in humans.<sup>[5]</sup> In a group of women, whey protein improved body composition, but soy protein did not.\*<sup>[6]</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.**

Distributed By: Merrikh Medical  
5910 Fairdale Ln. Houston TX, 77057  
Merrickh Medical.com

Tri-Athlete Whey + IgG Immune Support & BCAA's



# Supplement Facts

Serving Size: 2 Scoops (20 g)  
Servings Per Container: 15

	Amount Per Serving	%Daily Value†
<b>Calories</b>	80	
Calories from Fat	15	
<b>Total Fat</b>	1.5 g	2%
Saturated Fat	1 g	5%
Cholesterol	45 mg	15%
Total Carbohydrate	1 g	0.3%
Protein	16 g	32%
Calcium	70 mg	7%
Phosphorus	50 mg	5%
Magnesium	10 mg	3%
Sodium	25 mg	1%
Potassium	130 mg	4%
Immunoglobulins	1.6 g	**

† Percent Daily Values are based on a 2,000 calorie diet.  
\*\* Daily Value not established.

**Other Ingredients:** Whey Protein Concentrate.

**Contains:** Milk.

### Typical Amino Acid Profile Per Serving:

Alanine	864 mg	Lysine	1504 mg
Arginine	448 mg	Methionine	416 mg
Aspartic Acid	1808 mg	Phenylalanine	560 mg
Cysteine	464 mg	Proline	1040 mg
Glutamine	2976 mg	Serine	864 mg
Glycine	336 mg	Threonine	1184 mg
Histidine	320 mg	Tryptophan	336 mg
Isoleucine	1120 mg	Tyrosine	560 mg
Leucine	1824 mg	Valine	1024 mg

## References

1. Bell SJ. Whey protein concentrate enriched with immunoglobulins. Unpublished review article. [Accessible upon request]
2. Bell SJ, Forse RA. *Positive Nutrition for HIV-Infected & AIDS: A Medically Sound Take-Charge Plan to Maintain Weight and Improve Your Quality of Life*. Minneapolis, MN: Chronimed; 1996.
3. Bounous G, Gold P. The biological activity of undenatured dietary whey proteins: role of glutathione. *Clin Invest Med*. 1991 Aug;14(4):296-309. [PMID: 1782728]
4. Zimecki M, Własczyk A, Cheneau P, et al. Immunoregulatory effects of a nutritional preparation containing bovine lactoferrin taken orally by healthy individuals. *Arch Immunol Ther Exp (Warsz)*. 1998;46(4):231-40. [PMID: 9779289]
5. Graf S, Egert S, Heer M. Effects of whey protein supplements on metabolism: evidence from human intervention studies. *Curr Opin Clin Nutr Metab Care*. 2011 Nov;14(6):569-80. [PMID: 21912246]
6. Baer DJ, Stote KS, Paul DR, et al. Whey protein but not soy protein supplementation alters body weight and composition in free-living overweight and obese adults. *J Nutr*. 2011 Aug;141(8):1489-94. [Epub 2011 Jun 15] [PMID: 21677076]

## Cautions

Consult your healthcare practitioner before use. Keep out of reach of children. Avoid if allergic to any ingredient.

**\*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.**

**Distributed By: Merrikh Medical**

**5910 Fairdale In. Houston TX, 77057**

**Merrikh Medical.com**

DRS-155

REV. 03/19/13