

The Moss Nutrition Digest

Timely Tidbits to Support Your Practice

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Exploring Benefits of Serum-derived Bovine Immunoglobulin

Serum-derived Bovine Immunoglobulin (SBI) is a well-tolerated medical food researched to help optimize the gastro-intestinal inflammatory response and improve balance in the gut microbiome. SBI is commonly recommended for people dealing with chronic gut lining irritation and its related issues—from nutrient malabsorption and bowel irregularities to increased intestinal permeability (leaky gut syndrome) and its downstream effects.

Studies suggest that gastrointestinal inflammation may be integral in driving systemic inflammation and the attendant overexpression of cytokines throughout the body. This effect may largely be due to the escape of protein fragments, bacteria and assorted antigens from inside the gut lumen into the lamina propria and circulatory system via the route of enlarged intercellular spaces in the gut endothelium. According to an article published in June of this year:

“A self-perpetuating cycle of increasing gut inflammation, initiated by infiltration of plasma cells and lymphocytes, leading to increased intestinal permeability, results in higher cytokine production and translocation of bacteria/bacterial products that contribute to systemic inflammation through the common mucosal immune system, culminating in a cytokine storm.”¹

Several beneficial mechanisms attributed to serum-derived bovine immunoglobulin may help to prevent or reverse this vicious cycle, beginning with its ability to decrease and normalize gut permeability. SBI also has been shown to help promote the binding and neutralization of inflammatory antigens², to interfere with ACE2 binding by viral proteins, and to improve the fecal microbiome.

IgG Select™ is a powdered dietary supplement providing 2.5 grams of SBI per scoop as Immunolin®, a well-researched bovine serum immunoglobulin concentrate derived exclusively from cows raised in the USA and New Zealand. A rich source of Immunoglobulin G, Immunolin® also contains Immunoglobulins M and A, as well as antimicrobial bovine serum albumin.

Studies suggest Immunolin® SBI can help bind toxins and microbes from the GI tract and eliminate them prior to immune system activation. It has been shown to improve outcomes in functional digestive disorders and to promote healthy gut flora balance which further supports proper functioning of the gut-mediated immune response, frequently our first line of defense against invading pathogens.

REFERENCES

1. Utay NS, et al. Potential use of serum-derived bovine immunoglobulin/protein isolate for the management of COVID-19. *Drug Dev Res.* 2021 Jun 10. (<https://onlinelibrary.wiley.com/doi/epdf/10.1002/ddr.21841>)
2. Detzel CJ, et al. Bovine immunoglobulin/protein isolate binds pro-inflammatory bacterial compounds and prevents immune activation in an intestinal co-culture model. *PLoS One.* 2015 Apr 1;10(4):e0120278. (<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4382133/>)