



# K60 REPAIRVITE™

**Supports restoration and healthy maintenance of the intestinal tract**

## BENEFITS OF PRODUCT

- Supports the regeneration and restoration of the intestinal lining
- Provides glycoproteins to cover mucosa called mucin to support the mucosa membrane when irritated
- Provides flavonoids, saponins, carotenoids, phytochemicals, and antioxidants to support tissue during intestinal inflammation
- Provides natural compounds that aid in reducing intestinal discomfort
- Provides extracts with high mucilage content to soothe and support intestinal health
- Provides plant sterols and ferulic acid esters to help modulate the enteric nervous system with intestinal motility and the secretion of digestive enzymes

## USE OF PRODUCT

When the mucous lining of the small intestine becomes too porous (intra and extracellular), it allows entry of toxins, microorganisms, and undigested food particles into the bloodstream and promotes an inflammatory immune response. Intestinal barrier compromise has been associated with multiple food sensitivities, increased inflammation, autoimmune reactions, chronic fatigue, etc.

**RepairVite™ is formulated to provide key nutrients to help support intestinal barrier integrity.** It contains targeted nutrients, flavonoids, antioxidants, plant sterols, glycoproteins, and saponins needed to help restore and maintain intestinal lining integrity.

## OTHER PRODUCTS TO CONSIDER

Intestinal lining permeability is often accompanied by compromised hepatic detoxification activity. The use of Clearvite-SF® (K24), combined with RepairVite™ (K60) as a nutritional drink, provides additional help to support the hepatic-intestinal systems. The use of RepairVite™ (K60) with the 21-day Clearvite® dietary program will help cleanse the body and reduce inflammation. Intestinal permeability is also accompanied by abnormal microbial environments. H-PLR™ (K32) provides targeted natural compounds that demonstrate antibacterial properties. Parastonil™ (K59) provides natural compounds that demonstrate antiparasite activity. Yeastonil™ (K58) provides natural compounds that demonstrate antifungus and anti-yeast activity. Lastly, the addition of broad spectrum pre- and probiotics may aid in intestinal health permeability and microbiology that can be supported with Strengtia™ (K61) Probiotics. A comprehensive intestinal health and detoxification program can be conducted with all of the products mentioned above along with the Clearvite® three-week dietary program.

## KEY INGREDIENTS

## RESEARCH COMMENTARY

*The research information presented here should not be construed as claims regarding performance of this product.*

**L-GLUTAMINE** is the preferred fuel source for the cells of the small intestine and has been shown to support the regeneration and repair

## Supplement Facts

**Serving size 1 scoop (5.767 g)**

**Servings per container 30**

	Amount Per Serving	% DV
L-Glutamine	2500 mg	*
Deglycyrrhizinated		
Licorice extract (root)	500 mg	*
Aloe Vera extract (leaf)	200 mg	*
<b>Proprietary Blend:</b>	1510 mg	
Marshmallow extract (root)		*
Slippery Elm extract (bark)		*
Gamma Oryzanol		*
MSM (methyl sulfonyl methane)		*
Spanish Moss (whole plant) (tillandsia usneoides)		*
German Chamomile extract (flower)		*
Marigold extract (flower) (calendula officinalis)		*
Maltase		*
Invertase		*
Amylase		*
Cellulase		*
Lactase		*

**\* Daily Value (DV) not established.**

**Other ingredients:** Natural flavor, luo han guo fruit extract.

## DIRECTIONS

Mix 1 scoop with up to 6-8 ounces of water. Mix well before drinking. Use 1-3 times a day or as directed by your healthcare practitioner.

*This product is not intended for use as a replacement for medications prescribed by a medical doctor. It is intended for nutritional purposes only. Statements in this flyer 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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of the intestinal lining. It has also been shown to increase the number of cells in the small intestine, the number of villi on those cells, as well as the height of the villi. Glutamine-reduced permeability of the lining may accompany "leaky gut" patterns that promote intestinal inflammation and the development of delayed food intolerances.<sup>1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22</sup>

**DEGLYCYRRHIZINATED LICORICE** is a popular and substantially studied natural compound that provides flavonoids that help heal the gastric and intestinal lining. Many different mechanisms have been shown with regard to its restorative properties, including stimulation and differentiation of glandular cells, protective mucous formation, protective mucous secretion, increased intestinal blood flow, and growth and regeneration of intestinal lining cells.<sup>23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42</sup>

**ALOE LEAF EXTRACT** contains natural phytochemicals and powerful antioxidant properties that reduce intestinal inflammation, soothe the intestines, aid in intestinal wound healing, and have an anti-ulcer effect. It also appears to have antifungal properties, supports cholinergic intestinal motility, and reduces intestinal pain and discomfort.<sup>43, 44, 45, 46, 47, 48, 49, 50, 51, 52</sup>

**SPANISH MOSS** is also known as *Tillandsia*, and it has historically been used for intestinal irritation and allergies. Research on the plant has identified rich sources of flavonoids and other phytochemicals that provide antimicrobial activity and free radical-scavenging properties.<sup>53, 54, 55, 56, 57, 58</sup>

**MARSHMALLOW EXTRACT** has a high content of mucilage that can soothe and help heal compromised intestinal barrier tissue. It is also rich in antioxidants that can support the healing of tissue. It also has properties that inhibit hyaluronidase, which is the enzyme involved in the production of hyaluronic acid involved with intestinal tissue destruction.<sup>59, 60, 61</sup>

**METHYL SULFONYL METHANE (MSM)** is a rich source of natural sulfur, which helps as a substrate for antioxidant defense systems as well as supports substrates for hepatic Phase II sulfation pathways. It has antifungal and anti-inflammatory properties that help support the compromised liver-gut axis.<sup>62, 63, 64, 65</sup>

**GAMMA ORYZANOL** is a mixture of plant sterols and ferulic acid esters from rice. It has shown to be a powerful antioxidant. Numerous papers have demonstrated its effectiveness in gastrointestinal complaints, ulcers, irritable bowel syndrome, and non-specific gastrointestinal conditions. It has also been shown to modulate and support the enteric nervous system in its ability to activate intestinal motility and secrete digestive enzymes.<sup>66, 67, 68, 69, 70, 71, 72, 73</sup>

**SLIPPERY ELM BARK** is very high in natural mucilage and helpful in soothing the inflamed intestinal cells. It reduces contact of inflammatory proteins with the intestinal mucosa, thereby enhancing recovery from intestinal barrier compromise and inflammation.<sup>74, 75, 76, 77</sup>

**GERMAN CHAMOMILE** The chief constituents of German Chamomile have been identified as esters of angelic and tiglic, together with amyl and isobutyl alcohol. These constituents have been shown to enhance wound-healing time, modulate prostaglandins and nitric oxide activity to provide gastric and intestinal protection.<sup>78, 79, 80, 81, 82, 83, 84, 85, 86</sup>

**MARIGOLD FLOWER EXTRACT** constituents include saponins, carotenoids, flavonoids, mucilage, bitter principle, phytosterols, polysaccharides, and resin. It has been used historically for varied gastrointestinal complaints. It also provides substrates for digestive enzyme production, helps during inflammation, and provides antibacterial activity.<sup>87, 88, 89, 90, 91, 92, 93</sup>

## REFERENCE INFO

- Noyer CM, Simon D, Borczuk A, Brandt LJ, Lee MJ, Nehra V. A double-blind placebo-controlled pilot study of glutamine therapy for abnormal intestinal permeability in patients with AIDS. *Am J Gastroenterol*. 1998 Jun;93(6):972-5.
- Klimberg VS, Souba WW, Dolson DJ, Salloum RM, Hautamaki RD, Plumley DA, Mendenhall WM, Bova FJ, Khan SR, Hackett RL, et al. Prophylactic glutamine protects the intestinal mucosa from radiation injury. *Cancer*. 1990 Jul 1;66(1):62-8.
- Chamorro S, de Blas C, Grant G, Badiola I, Menoyo D, Carabaño R. Effect of dietary supplementation with glutamine and a combination of glutamine-arginine on intestinal health in twenty-five-day-old weaned rabbits. *J Anim Sci*. 2010 Jan;88(1):170-80.
- Amasheh M, Andres S, Amasheh S, Fromm M, Schulzke JD. Barrier effects of nutritional factors. *Ann N Y Acad Sci*. 2009 May;1165:267-73.
- Kul M, Vurucu S, Demirkaya E, Tunc T, Aydinöz S, Meral C, Kesik V, Alpay F. Enteral glutamine and/or arginine supplementation have favorable effects on oxidative stress parameters in neonatal rat intestine. *J Pediatr Gastroenterol Nutr*. 2009 Jul;49(1):85-9.
- Azuma H, Mishima S, Oda J, Homma H, Sasaki H, Hisamura M, Ohta S, Yukioka T. Enteral supplementation enriched with glutamine, fiber, and oligosaccharide prevents gut translocation in a bacterial overgrowth model. *J Trauma*. 2009 Jan;66(1):110-4.
- Maes M, Leunis JC. Normalization of leaky gut in chronic fatigue syndrome (CFS) is accompanied by a clinical improvement: effects of age, duration of illness and the translocation of LPS from gram-negative bacteria. *Neuro Endocrinol Lett*. 2008 Dec;29(6):902-10.
- Tian J, Hao L, Chandra P, Jones DP, Williams IR, Gewirtz AT, Ziegler TR. Dietary glutamine and oral antibiotics each improve indexes of gut barrier function in rat short bowel syndrome. *Am J Physiol Gastrointest Liver Physiol*. 2009 Feb;296(2):G348-55.
- Coëffier M, Claeysens S, Lecleire S, Leblond J, Coquard A, Bôle-Feysot C, Lavoinne A, Ducrotté P, Déchelotte P. Combined enteral infusion of glutamine, carbohydrates, and antioxidants modulates gut protein metabolism in humans. *Am J Clin Nutr*. 2008 Nov;88(5):1284-90.
- Wang WW, Qiao SY, Li DF. Amino acids and gut function. *Amino Acids*. 2009 May;37(1):105-10. Epub 2008 Aug 1. Review. PubMed PMID: 18670730.
- Xue H, Sawyer MB, Field CJ, Dieleman LA, Murray D, Baracos VE. Bolus oral glutamine protects rats against CPT-11-induced diarrhea and differentially activates cytoprotective mechanisms in host intestine but not tumor. *J Nutr*. 2008 Apr;138(4):740-6.
- Vicario M, Amat C, Rivero M, Moretó M, Pelegrí C. Dietary glutamine affects mucosal functions in rats with mild DSS-induced colitis. *J Nutr*. 2007 Aug;137(8):1931-7.
- Harsha WT, Kalandarova E, McNutt P, Irwin R, Noel J. Nutritional supplementation with transforming growth factor-beta, glutamine, and short chain fatty acids minimizes methotrexate-induced injury. *J Pediatr Gastroenterol Nutr*. 2006 Jan;42(1):53-8.
- Yeh CL, Hsu CS, Yeh SL, Chen WJ. Dietary glutamine supplementation modulates Th1/Th2 cytokine and interleukin-6 expressions in septic mice. *Cytokine*. 2005 Sep 7;31(5):329-34.
- Basivireddy J, Jacob M, Balasubramanian KA. Oral glutamine attenuates indomethacin-induced small intestinal damage. *Clin Sci (Lond)*. 2004 Sep;107(3):281-9.
- Li N, Liboni K, Fang MZ, Samuelson D, Lewis P, Patel R, Neu J. Glutamine decreases lipopolysaccharide-induced intestinal inflammation in infant rats. *Am J Physiol Gastrointest Liver Physiol*. 2004 Jun;286(6):G914-21.
- Zhou X, Li YX, Li N, Li JS. Glutamine enhances the gut-trophic effect of growth hormone in rat after massive small bowel resection. *J Surg Res*. 2001 Jul;99(1):47-52.