



K31

X-VIROMIN™

To Reinforce Immune Health During Viral Stress

BENEFITS OF PRODUCT

- Supports healthy immune responses during viral infections
- Provides a wide range of vitamins, herbs, and glandulars to support immunity

USE OF PRODUCT

This product contains glandular, nutritional, and herbal compounds that have been shown to support healthy immune system function, and can be used as nutritional support during an infection. Although there is no treatment specific to viral infections, some of the compounds in this formula have demonstrated the ability to support healthy cellular and humoral immunity. In addition, support has been shown for healthy phagocytic activity of macrophages and monocytes, as well as the natural killer cells, neutrophils, and lymphokines.

OTHER PRODUCTS TO CONSIDER

Other formulas can be used in conjunction with X-Viromin™ to support the immune system. **H-PLR™ (K32)** provides nutrients and herbs that have potential antimicrobial activity and immune-supporting qualities. **Adaptocrine® (K02)** contains adaptogens that have immune modulatory and stress-quenching properties. **OxiCell® (K22)** is a liposomal delivery form of glutathione and SOD that may provide immune modulation activity.

KEY INGREDIENTS

RESEARCH COMMENTARY

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

ASTRAGALUS membranaceus is a traditional Chinese medical herb with documented immune-supporting properties. Its physiological impact has been demonstrated as the ability to increase interferon production and inhibit viral ribonuclease systems, therefore enhancing antiviral responses.^{1 2 3 4} It enhances the phagocytic activity of macrophages and monocytes,⁵ modulates T-cell activity and increases the production of natural killer cells.^{6 7}

Clinical studies in China have shown it to be effective during viral infections, and compromised immunity due to chemical and radiation exposure.^{8 9 10} Research on astragalus has also demonstrated its ability to enhance antibody responses to T-dependent antigens,¹¹ as well as reduce the severity and duration of the common cold.¹²

ECHINACEA Hundreds of studies have been performed on echinacea, demonstrating its effectiveness in supporting the immune system. It has been shown to have numerous physiological impacts, such as immunostimulatory, anti-inflammatory, antiviral, and antibacterial properties.^{13 14}

The antiviral properties of echinacea have been attributed to its role in supporting the cytotoxic killing of virus-infected cells and the release of interferon. It may also possess the ability to inhibit hyaluronidase and block virus receptors on the surface of cells. Echinacea has also been shown to increase the number of neutrophils, lymphokines, and promote non-specific T-cell activation.^{15 16 17 18}

Supplement Facts

Serving size 1 capsule

Servings per container 90

	Amount Per Capsule	% DV
Vitamin A (as mixed carotenoids)	500 IU	10%
Vitamin C (as ascorbic acid)	60 mg	100%
Zinc (as zinc gluconate)	7 mg	47%
Astragalus extract (root)	200 mg	*
Echinacea purpurea extract	75 mg	*
Licorice extract (root)	75 mg	*
Thymus (porcine)	12 mg	*
Spleen (porcine)	12 mg	*
Parotid (bovine)	10 mg	*
Proprietary Blend:	300 mg	
Lemon Balm extract		*
Pomegranate extract (fruit)		*
Maitake mushroom		*

*Daily Value (DV) not established.

Other ingredients: Gelatin (capsule), rice flour.

DIRECTIONS

Take 1-2 capsules, 3 times a day, or as directed by your healthcare practitioner.

GLYCYRRHIZA GLABRA (LICORICE ROOT EXTRACT) The active components of glycyrrhiza glabra have several independent supportive impacts on the immune system. They have shown anti-viral properties due to their ability to increase interferon production and inhibit

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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viral RNA replication.^{19 20} Several studies using licorice have shown positive results with viral disorders.^{21 22 23} The isoflavonoid components of licorice saponins have displayed antimicrobial and antifungal activity.²⁴

MELISSA OFFICINALIS (also known as lemon balm) is derived from the mint family of plants. It contains rich polyphenols, which have been shown to exhibit antiviral and antibacterial activity. It appears to improve both humoral and cellular immune responses.^{25 26} *Melissa officinalis* has demonstrated the ability to inhibit viral replication and be supportive in the management of viruses such as herpes simplex outbreaks.^{27 28}

MAITAKE MUSHROOM has been shown to have numerous health-promoting properties in regard to immune function. It has demonstrated the ability to activate natural killer cells and macrophages, as well as enhance humoral and cellular immunity.^{29 30 31}

PUNICA GRANTUM (POMEGRANATE) has been shown to have many immune-enhancing and modulating properties. It has been used for centuries in Asian, Indian, and Middle Eastern plant-based therapies. The flavonoids, polyphenols, and tannins in this plant have been shown to decrease oxidative markers such as malondialdehyde, hydroxyperoxides, and conjugated dienes. It has shown the ability to increase the activities of the enzymes catalase, superoxide dismutase, and glutathione peroxidase.^{32 33} *Punica granatum* has also demonstrated the potential to provide properties that may act as viral entry inhibitors and inhibit viral replication.^{34 35}

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