



PureDefense chewables

Introduced 2009



What Is It?

PureDefense chewables provides overall immune defense and upper respiratory health support in a great-tasting, chewable tablet.*

Features Include

- Great-tasting, chewable tablet
- For ages 2 and up
- Offers a comprehensive blend of EpiCor® *saccharomyces cerevisiae* fermentate, elderberry, zinc, quercetin and Ester-C®, a non-acidic enhanced retention vitamin C, to support first-line and adaptive immune response*
- Naturally flavored and sweetened

Uses For PureDefense chewables

Immune Defense: PureDefense chewables are a comprehensive blend of nutrients and herbal extracts designed to support immune function in a convenient, great-tasting, chewable tablet. EpiCor® *saccharomyces cerevisiae* fermentate contains numerous immune enhancing bioactive metabolites designed to support both innate and adaptive immune response. Research suggests that it enhances natural killer cell activation, B cell and T cell function, and secretory IgA levels. In two randomized, double-blind, placebo-controlled trials, EpiCor® provided statistically significant support for upper respiratory tract health and overall immune health. In another trial, EpiCor® helped maintain a healthy immune response to environmental factors. Elderberry extract provides powerful immune enhancing anthocyanins, flavonoids and other polyphenols. Studies have shown statistically significant immune support in all ages. Quercetin maintains healthy histamine production by supporting healthy enzyme activity. Zinc and vitamin C, provided as the non-acidic enhanced retention Ester-C®, help boost immune defense by supporting immune cell proliferation, activation and function, as well as healthy antioxidant enzyme function.*

What Is The Source?

Ascorbic acid and citrate are derived from corn dextrose fermentation. Minerals are derived from elemental ore. Quercetin is derived from the Fava d'anta tree (*Dimorphandra mollis*) pods. EpiCor® dried yeast fermentate complex is derived from *Saccharomyces cerevisiae*. Elderberry extract is derived from *Sambucus nigra* fruit. Xylitol is derived from corn cob and purified to be free of corn protein. Cellulose is derived from pine. Lo Han is derived from *Momordica grosvenori* fruit extract. Natural cherry flavor is derived from fruit and contains maltodextrin derived from corn.

“Natural killer (NK) cells are not only an important first-line defense, they set the stage for the adaptive immune response that follows. Research shows that NK cell activity is highly responsive to nutritional interventions and that supporting NK cell activity leads to better overall outcomes.”

– Barry W. Ritz, PhD
Nutritional Immunologist

Recommendations

Pure Encapsulations® recommends:

- Ages 2-3, take 1-2 tablets daily, with a meal.
- Ages 4 and up, take 2-4 tablets daily, with a meal.

Are There Any Potential Side Effects Or Precautions?

Zinc can cause a metallic taste in some individuals. There have been rare reports of quercetin causing headache or tingling in extremities. If pregnant or lactating, consult your physician before taking this product.

(continued)

Are There Any Potential Drug Interactions?

Zinc may be contraindicated with certain antibiotics. Elderberry may be contraindicated for individuals on immunosuppressant medications. Preliminary evidence suggests that quercetin may inhibit the metabolism of medications through the cytochrome pathways in the liver. Consult your physician for more information.

PureDefense chewables

four chewable tablets contain v

vitamin C (from calcium ascorbate).....	60 mg
calcium (from calcium ascorbate	6 mg
zinc (as zinc citrate)	15 mg
EpiCor® dried fermentate	250 mg
(from <i>Saccharomyces cerevisiae</i>)	
European elder (elderberry) (<i>Sambucus nigra</i>).....	200 mg
extract (fruit)	
quercetin	60 mg

other ingredients: xylitol, cellulose, silica, magnesium silicate, natural cherry and vanilla flavors, luohanguo (*Momordica grosvenorii*) extract (fruit)

Ages 2-3, take 1-2 tablets daily, with a meal.
 Ages 4 and up, take 2-4 tablets daily, with a meal.

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Ester-C® Ester-C® or the Ester-C® logo are registered trademarks of The Ester C Company. This product may be covered by one or more of the following U.S. patents: 4,822,816; 5,070,085; 6,878,744 and corresponding foreign patents. Other U.S. and foreign patents pending.

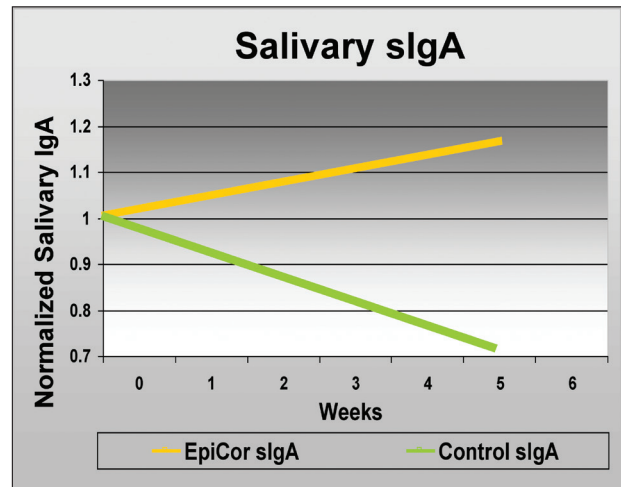


Fig.1. Effect of EpiCor® on salivary IgA.*

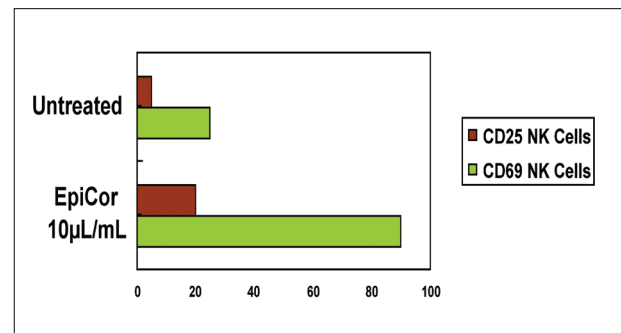


Fig.2. Increase in natural killer cell activity with EpiCor®.*