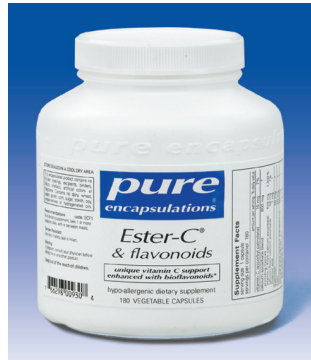




Manufacturers of  
Hypo-allergenic  
Nutritional  
Supplements



# Ester-C® & flavonoids

INTRODUCED 2006

## What Is It?

Ester-C® is a natural, non-acidic water-soluble form of vitamin C that is distinguished by its unique chemical composition and biological activity. It is manufactured in an exclusive, water-based process that results in a mixture of naturally occurring vitamin C metabolites, including ascorbate, dehydroascorbate, and threonate.\*

## Uses For Ester-C & flavonoids

**Antioxidant Support:** Animal studies show increased plasma vitamin C concentration and delayed urinary excretion with administration of Ester-C, suggesting that it is readily absorbed and efficiently utilized. Calcium l-threonate, a metabolite of calcium ascorbate, may facilitate the transport and uptake of vitamin C, playing a key role in optimizing cellular levels. A human study involving 12 subjects indicated favorable bioavailability as well as revealing a boost in white blood cell levels. The bioflavonoids quercetin, rutin and pomegranate extract are powerful free radical scavengers that complement the roles of vitamin C. Quercetin helps maintain healthy histamine release and moderates healthy leukotriene and prostaglandin metabolism. Rutin and pomegranate extract provide important support for blood vessel integrity and healthy cell function.\*

## What Is The Source?

Ester-C® mineral ascorbates are manufactured from ascorbic acid, mineral oxides and mineral carbonates. The mineral oxides and carbonates are mined domestically. The ascorbic acid is derived from corn fermentation. Quercetin and rutin are derived from Japanese pagoda tree (*Sophora Japonica*) flower buds and the fava danta tree respectively. Pomegranate (*punica granatum l.*) extract is standardized to contain 5% ellagic acid. Vitamin C (ascorbyl palmitate) is derived from corn dextrose fermentation and palm oil.

## Ester-C®

Ester-C® and 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.

## Recommendations

Pure Encapsulations recommends 1 or more capsules daily, with or between meals.

## Are There Any Potential Side Effects Or Precautions?

If pregnant or lactating, consult your physician before taking this product. People with the following conditions should consult their doctor before supplementing with vitamin C: glucose-6-phosphate dehydrogenase deficiency, iron overload (hemosiderosis or hemochromatosis), history of kidney stones, or kidney failure. It has been suggested that people who form calcium oxalate kidney stones should avoid vitamin C supplements because vitamin C can convert into oxalate and increase urinary oxalate. In rare cases, quercetin may cause headaches and mild tingling of the extremities. Consult your physician for more information.

## Are There Any Potential Drug Interactions?

Quercetin may react with calcium channel blockers, estradiol, and immune suppressive drugs. Consult your physician for more information.

\*These statements have not been evaluated by the Food & Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.

For educational purposes only. Consult your physician for any health problems.

**Ester-C® & flavonoids**

each vegetable capsule contains  V 00

calcium ascorbate blend .....	800 mg.
providing (typical):	
vitamin C (from calcium ascorbate) .....	619 mg.
calcium (from calcium ascorbate) .....	68 mg.
threonic acid .....	7 mg.
quercetin .....	50 mg.
rutin .....	50 mg.
pomegranate (punica granatum L.) extract (whole fruit) .....	50 mg.
(standardized to contain 5% ellagic acid) .....	2.5 mg.
vitamin C (ascorbyl palmitate) .....	10 mg.

**1 or more capsules per day, with or between meals.**



— Your Trusted Source —