

# careimmun<sup>®</sup>

Multivitamin and mineral supplement



Pharmaceutical quality essential vitamins  
and minerals with a difference

Since 1984  
in Germany





## Pharmaceutical quality essential vitamins and minerals with a difference

careimmun® is a convenient oral medical grade product. It is appropriate not only to maintain overall wellness but also for recovery or maintenance of nutritional status for patients with acute or chronic nutritional challenges.

Vitamin and mineral levels, while usually adequate from dietary intake alone, can become deficient by transient health issues, chronic disease or while undergoing acute or chronic treatment for serious medical problems. This is especially true for patients undergoing treatment for malignancies.

careimmun® is also therefore recommended to help mitigate side effects associated with specific mineral deficiencies which may occur during oncologic treatment.

## careimmun® is a unique nutritional supplement

careimmun® is different from typical multivitamins or generic drugstore products both in quality and administration.

careimmun® capsules have pharmaceutical grade ingredients manufactured in compliance with strict German pharma regulation\* which ensures careimmun® adheres to purity standards and are free of contaminants.

The ingredients are separated into two types of distinct beadlets. The beadlets are designed to prevent micronutrients, especially antioxidants, from interacting with and inactivating each other. This protects and insures the potency of ingredients in each capsule.

The beadlets also provide patients with dysphasia or other swallowing difficulties an alternative means of ingesting the active ingredients. The capsule can be opened and the contents easily and safely added directly to food without compromising efficacy.

careimmun® beadlets are designed to maintain their biochemical integrity and activity when exposed to gastric contents. This insures intact delivery into the bowel, where absorption of micronutrients occurs, without degradation.

\*2002/46/EG des Europäischen Parlaments und des Rates, Lebensmittelgesetz.

## careimmun®: two kinds of beadlets



### Yellow beadlets: Vitamins & Coenzyme Q10

The yellow beadlets get their color from Coenzyme Q10.

Ingredients:

Biotin, Coenzyme Q10, Calcium-L-methylfolate, Nicotinamide, Vitamin B1, Vitamin B2, Vitamin B6, Vitamin B12, Vitamin C, Vitamin D3, Vitamin E.



### Red beadlets: Trace elements, phytonutrients and pantothenic acid

The red beadlets get their color from Lycopene.

Ingredients:

Calcium pantothenate, Copper gluconate, Vitamin E, Vitamin D3, Coenzyme Q10, Trace elements granulate (Sodium selenate, Chromium chloride, Sodium molybdate), Zinc oxide, Lutein, Lycopene.

scaled to show details

## careimmun® for wellness

careimmun® includes a broad compliment of vitamins and essential micronutrients. The individual ingredients are chosen to assist in maintaining optimal overall nutritional status.

For example: careimmun® contains folic acid in its most bioavailable form: methyltetrahydrofolate. Folic acid in food is only 50 % bioavailable.<sup>[1]</sup>

Beta carotene is specifically not included to avoid potential adverse effects in select individuals.

## Direction for use

During active treatment take one capsule three times daily with or without food.

Thereafter: for maintenance one capsule daily with or without food.



## Supplement Facts

Serving Size 1 capsule (Total Daily Amount: 3 capsules per day)  
Servings per Container 90

	Amount Per Serving	% Daily Value	Amount Per Day	% Daily Value
Vitamin C (as ascorbic acid)	100 mg	111 %	300 mg	333 %
Vitamin D (as cholecalciferol)	20 mcg	100 %	60 mcg	300 %
Vitamin E (as d-alpha-tocopheryl succinate)	12 mg	80 %	36 mg	240 %
Thiamin (as thiamine mononitrate)	1 mg	83 %	3 mg	250 %
Riboflavin	1.2 mg	92 %	3.6 mg	277 %
Niacin (as niacinamide)	30 mg	188 %	90 mg	563 %
Vitamin B6 (as pyridoxine hydrochloride)	1.2 mg	71 %	3.6 mg	212 %
Folate (as calcium-L-5-methyltetra- hydrofolate)	340 mcg DFE	85 %	1020 mcg DFE	255 %
Vitamin B12 (as cyanocobalamin)	3 mcg	125 %	9 mcg	375 %
Biotin	70 mcg	233 %	210 mcg	700 %
Pantothenic Acid (as calcium pantothenate)	6 mg	120 %	18 mg	360 %
Zinc (as zinc oxide)	10 mg	91 %	30 mg	273 %
Selenium (as sodium selenate)	70 mcg	127 %	210 mcg	382 %
Copper (as copper gluconate)	1 mg	111 %	3 mg	333 %
Chromium (as chromium chloride)	30 mcg	86 %	90 mcg	257 %
Molybdenum (as sodium molybdate)	50 mcg	111 %	150 mcg	333 %
Coenzyme Q10 (as ubiquinone)	50 mg	*	150 mg	*
Lutein (from marigold petal extract)	5 mg	*	15 mg	*
Lycopene (from tomato skin and pulp extract)	2.5 mg	*	7.5 mg	*

\*Daily Value Not Established

OTHER INGREDIENTS: Microcrystalline cellulose, capsule (hydroxypropyl methylcellulose), food glaze, dicalcium phosphate, cornstarch, magnesium stearate

## careimmun<sup>®</sup> for cancer patients during treatment or follow up

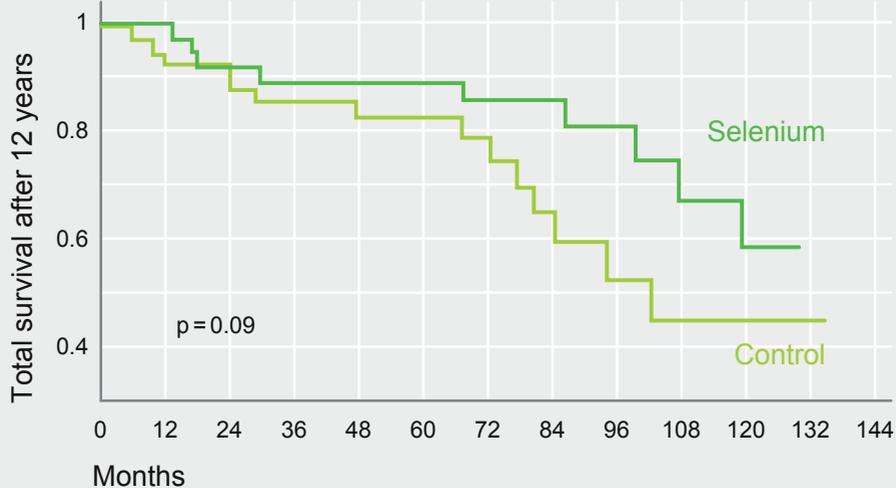
Cancer therapy side effects are often related to radiation or chemotherapy toxicity impacting healthy cells. Maintenance or replenishment of selenium, deficiency of which can occur during radiation or chemotherapy, has been shown to reduce incidence of side effects including diarrhea without interfering with the effectiveness of radiotherapy or specific chemotherapy agents.<sup>[2]</sup> careimmun<sup>®</sup> includes sodium selenate to avoid interaction with vitamin C.

## Micronutrient supplementation in oncology patients

Patients with malignancy often experience decreased appetite. Thus, a nutrient complete diet can be a challenge further complicated by adverse effects associated with specific therapy. careimmun<sup>®</sup> can assist in maintaining a normal micronutrient balance for these patients. The Individual nutrient components of careimmun<sup>®</sup> can address the specific requirements of the oncology patient.

In addition to selenium, careimmun<sup>®</sup> also contains nutrients which are of potential benefit to cancer patients. For instance: CoQ10. A decrease in Coenzyme Q10 has been associated with a variety of solid tumors and related to outcomes and metastatic disease.<sup>[3,4,5]</sup> Supplementation with Coenzyme Q10, also associated with improved immune function, is therefore included in careimmun<sup>®</sup>.

## Selenium did not impair effectiveness of radiotherapy during treatment



Muecke R et al. *Integr Cancer Ther.* 2014 Nov; 13(6): 463-7. Multicenter, phase III trial comparing selenium supplementation with observation in gynecologic radiation oncology: follow-up analysis of the survival data 6 years after cessation of randomization.

## Literature

1. Bailey L et al. *J Nutr.* 2015 Jul;145(7): 1636S-1680S. doi: 10.3945/jn.114.206599. Epub 2015 Jun 3. Biomarkers of Nutrition for Development-Folate Review
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3. Dhanasekaran M et al. *Curr Neurovasc Res.* 2005 Dec; 2(5): 447-59. The emerging role of coenzyme Q-10 in aging, neurodegeneration, cardiovascular disease, cancer and diabetes mellitus.
4. Rusciani L et al. *J Am Acad Dermatol.* 2006 Feb;54(2): 234-41. Low plasma coenzyme Q10 levels as an independent prognostic factor for melanoma progression.
5. Lockwood K, Moesgaard S, Folkers K. *Biochem Biophys Res Commun.* 1994 Mar 30; 199(3): 1504-8. Partial and complete regression of breast cancer in patients in relation to dosage of coenzyme Q10.

## About biosyn

biosyn Arzneimittel GmbH is a German pharmaceutical and biotechnology company.

biosyn, based in Fellbach, Germany, specializes in trace elements and is a recognized global leader for trace mineral replacement products. biosyn is also recognized for its unique, high quality and innovative manufacturing operations and products.

biosyn is a manufacturer of clinical medical products used across several areas including oncology, endocrinology, and intensive care applications. Biosyn maintains an active research and development presence in the industry.

First cGMP-compliant  
manufacturing procedure  
for sodium selenite  
pentahydrate.  
biosyn production facility  
in Fellbach, Germany



cGMP quality standard,  
made in Germany

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