

## APPLICATIONS

- Antioxidant Support
- Immune Support
- Cardiovascular Support
- Detox Support



## INTRODUCTION

Sealantro™ is a blend of chlorella (*Chlorella spp.*), cilantro leaf (*C. sativum*), and Pacific cold-water red seaweed (*Chondracanthus chamissoi*) extracts.

*Chlorella vulgaris* is a single-celled algae that belongs to the Chlorellaceae family, and is sometimes referred to as freshwater seaweed.<sup>1</sup> In traditional Chinese health practices, it is considered a gently cleansing, healthful food.<sup>2</sup> *C. vulgaris* contains flavonoids, tannins, triterpenoids, and sulfated polysaccharides, among others.<sup>3</sup> As a functional food, its protein content ranges from 55-67%, containing all essential amino acids.<sup>4</sup>

*Coriandrum sativum*, also known as Chinese parsley, belongs to the Umbelliferae/Apiaceae family and is native to the Mediterranean region.<sup>5</sup> *C. sativum* is well known as both an herb and a spice. The leaves are referred to as Cilantro, while the seeds are referred to as Coriander.<sup>6</sup> In Chinese health practices, Cilantro is viewed as a healthful and cooling food.<sup>7</sup> Cilantro (*C. sativum*) contains fiber, B vitamins, vitamin C, carotenoids, and minerals.<sup>8</sup> The leaves are an abundant source of beta-carotene, with mature leaves containing higher levels.<sup>8</sup> The majority of the leaf essential oil consists of (E)-2-Decenal.<sup>5</sup> Cilantro (*C. sativum*) is rich in phenolic compounds and contains phenolcarboxylic acids, coumarins, and flavonoids.<sup>5</sup>

*Chondracanthus chamissoi*, known commonly as Pacific cold-water red seaweed, belongs to the Gigartinales family.<sup>9</sup> It is also known as *Sphaerococcus chamissoi*, *Gigartina chamissoi*, and *Chondroclonium chamissoi*.<sup>9</sup> *C. chamissoi* contains polysaccharides and carageenans, among other constituents,<sup>10</sup> and its flavonol content may help with antioxidant support.<sup>11</sup>

Sealantro™ is made at our U.S. manufacturing facility using a specialized proprietary extraction process that optimizes the constituents of the herbs in their original, unprocessed state to obtain broad-spectrum concentration. Because our extracts are made in our own facility, we control all aspects of quality, including stringent ID testing, microbial testing, and heavy metal testing. NutraMedix rigorously follows

current good manufacturing practices (cGMP), as do our suppliers.

## ANTIOXIDANT SUPPORT

*Chlorella vulgaris* may help with antioxidant support.<sup>\*3,12,13</sup> It may help to maintain total antioxidant capacity, malondialdehyde levels, and erythrocyte antioxidant function already within the normal range.<sup>\*12,13</sup>

Cilantro (*C. sativum*) may contribute antioxidant support, as measured by DPPH assay and beta-carotene bleaching assay,<sup>5</sup> and may help to maintain healthy free radical scavenging activity involving hydroxyl and superoxide anion free radicals.<sup>\*5</sup> In preclinical studies, a leaf extract helped to support levels of glutathione, superoxide dismutase, and catalase already within the normal range in a dose-dependent manner, partly attributed to linoleic and linolenic fatty acid content.<sup>\*14</sup> In rat studies, Cilantro (*C. sativum*) helped with antioxidant support in both liver cells and plasma;<sup>15</sup> it also helped to maintain SGOT, SGPT, and TBARS already within the normal range.<sup>\*16</sup>

Red seaweed (*C. chamissoi*) may help with antioxidant support as determined by TRAP, FRAP, and DPPH assays, attributed to the phenolic and flavonoid content.<sup>\*11</sup>

## IMMUNE SUPPORT

*Chlorella (C. vulgaris)* may help with immune support.\* In studies with mice, it helped to support phagocytic activity, humoral immunity, and cell-mediated immunity already within the normal range.\*<sup>17</sup> It also helped to maintain B and T cell proliferation already within the normal range.\*<sup>18</sup> In healthy humans, *C. vulgaris* may help to maintain NK cell activity and levels of Th1 cell-induced cytokines already within the normal range.\*<sup>19</sup>

## CARDIOVASCULAR SUPPORT

*Chlorella (C. vulgaris)* may help to maintain blood pressure already within the normal range.\*<sup>20</sup> It may also help to maintain levels of total cholesterol, triglycerides, VLDL, and apolipoprotein B already within the normal range.\*<sup>21</sup>

## OTHER USES

### Detox Support

*Chlorella (C. vulgaris)* may help to support liver and kidney health.\*<sup>4,22,23,24</sup> It may also help to support healthy excretion of metals.\*<sup>4,24,25</sup> In rat studies, it helped to support the healthy excretion of metals both directly and in the form of metallothioneins (MTs), attributed to its chlorophyll and dietary fiber content.\*<sup>4</sup> Cilantro may also help to support healthy excretion of metals and support kidney health.\*<sup>26,27</sup> Pacific cold-water red seaweed, in preclinical studies, acted as a biosorbent for metals.\*<sup>28</sup>

## SAFETY AND CAUTIONS

*Chlorella (C. vulgaris)* is generally well tolerated. Gastrointestinal complaints such as nausea and diarrhea have been reported, though usually resolved within two weeks.<sup>29</sup> Fatigue has also been reported.<sup>30</sup> There have been case reports of chlorella causing photosensitivity,<sup>31</sup> and rare reports of thrombocytopenia which may have been associated with polypharmacy.<sup>32</sup> Allergy due to occupational exposure has been reported.<sup>33</sup> *Chlorella* has significant vitamin K content and may theoretically decrease the effectiveness of warfarin.<sup>34</sup> *Chlorella* may have a high iodine content and caution should be used in those who are sensitive.<sup>35</sup>

Cilantro (*C. sativum*) is generally well tolerated. The plant is generally recognized as safe (GRAS) in the U.S.<sup>36</sup> There has been one reported case of anaphylaxis following cilantro ingestion.<sup>37</sup> Cilantro (*C. sativum*) may have additive effects with antiplatelet medications.<sup>38</sup> It may also have additive effects with photosensitizing medications due to the constituent furoisocoumarin coriandrins.<sup>39</sup>

Pacific red seaweed (*C. chamissoi*), as a food, is generally well-tolerated. Regarding the potential for drug interactions or adverse effects, little data is available at this time.

Safety not documented in breastfeeding or pregnant women, or in children under 3 years of age due to insufficient safety research.

**\* This statement has not been evaluated by the Food and Drug Administration. This product is not intended to treat, cure, or prevent any diseases.**

**NutraMedix** 

**SHAKE WELL BEFORE EACH USE:**  
Put 40 drops in 4 oz (120mL) of water and wait one minute before drinking. Take every other day (30 min. before a meal) or as directed by your physician. Do not use if pregnant or nursing. Stop use if adverse reactions develop. Keep out of reach of children.

**These statements 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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**SEALANTRO**

**ANTIOXIDANT/ DETOX SUPPORT †**

**Dietary Supplement**

**1 fl oz. (30mL)**

**Supplement Facts**  
Serving Size 40 drops  
Servings Per Container 15

Amount Per Serving	
Proprietary Blend	2.0 mL†
Chlorella extract, Chondracanthus charrissioi extract, and Cilantro leaf extract	
†Daily Value not established	
Other ingredients: water, ethanol (20-24%)	

**NutraMedix**   
Jupiter, Florida 33458 USA  
www.nutramedix.com  
561-745-2917

V000000  
Lot #  
Exp.

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