**AllerDHQ™**

**Support for Seasonal Environmental Challenges**

**Clinical Applications**

- Supports Hypersensitive Individuals*
- Supports Nasal and Sinus Passages*
- Provides Antioxidant Support and Protection*

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**Discussion**

Individuals with hypersensitive immune reactions often experience physical, mental, and functional decline even with moderate onset of discomfort.[1,4] AllerDHQ provides fast-acting, natural support for hypersensitivity reactions, including watery, itchy eyes and runny nose, as well as other manifestations of histamine release. Formulated with a synergistic combination of vitamins, bioflavonoids, amino acids, herbs, and bromelain, AllerDHQ addresses the distressing signs of immune hypersensitivity.*

**Vitamin C** (ascorbic acid) Vitamin C is essential to humans and must be obtained exogenously. While most mammals are able to synthesize ascorbic acid, humans lack one of the enzymes required for this process and can quickly become deficient if dietary or supplemental intake is inadequate. Stress, smoking, pollution, and temperature changes increase our requirement for vitamin C. Well-known functions of vitamin C include antioxidant protection from damaging free radicals and the synthesis of collagen, carnitine, and neurotransmitters. Vitamin C also plays a lesser-known role in the deactivation of histamine.*[2,3]

**Bioflavonoids** Quercetin, dihydroquercetin (DHQ), and rutin are active bioflavonoids incorporated into AllerDHQ for their role in moderating an exaggerated immune response. Bioflavonoids work synergistically with other antioxidants to protect tissues from the negative effects of oxidation and inflammation often observed during hyperimmune reactions.[4] Immune-moderating effects include inhibition of mast-cell degranulation and prevention of histamine release during hypersensitive episodes.[1,5,6]

**Dihydroquercetin** DHQ supports the activities of other antioxidants, protects erythrocytes and capillaries, supports bronchial function, and assists in chelation of metals.[7] DHQ was also found to moderate pro-inflammatory pathways by inhibiting inducible ICAM-1 expression.[8] The FlavitPURE™ form of DHQ in AllerDHQ is a bioactive, natural form that is significantly more absorbable than quercetin alone. The inclusion of FlavitPURE in AllerDHQ creates a clear advantage over products containing only quercetin, as fewer capsules are required for effective results. This specific form of DHQ boasts an impressive ORACHydro value of 28,000+ μM TE/g and a CAP-e assay of 9.9-10.5 units per gram,[7,8] indicative of effective antioxidant protection within the cell. ORACHydro reflects oxygen radical absorbance capacity for water-soluble antioxidants, and CAP-e refers to cell-based antioxidant protection in erythrocytes.*

**Rutin** A source of naturally occurring flavonoids, rutin reduces capillary permeability and edema, which can reduce mucus fluid buildup or “runny nose.”[1,5] Rutin’s protective effect against oxidation is amplified by ascorbic acid, also present in AllerDHQ.*[4]

**N-Acetyl-Cysteine (NAC)** NAC is the acetylated form of the conditionally essential amino acid L-cysteine. As a precursor to the “master antioxidant” glutathione, NAC plays a significant role in detoxification and antioxidant protection. NAC also functions as a natural mucolytic, reducing the viscosity of mucus commonly produced during a hyperimmune response.[11,12]

**Stinging Nettle Extract** (*Urtica dioica*) Stinging nettle leaf has been found to regulate a variety of inflammatory activities associated with hyperimmune response, including mast-cell degranulation, prostaglandin formation, and histamine action.[13-15]

**Bromelain** Bromelain refers to an enzyme complex extracted from the stem and fruit of the pineapple plant (*Ananas comosus*). Its modulation of the inflammatory response is thought to exert a beneficial effect in combating hypersensitive immune reactions, earning it approved status by the German Commission E for “micro-inflammations” and related discomforts.[15,16] Early studies identified its positive effects on controlling edema, tissue permeability, and vasodilation.[17] Bromelain is also found to enhance the absorption of quercetin.[1,4]

Research indicates that the natural components in AllerDHQ, including vitamin C, bioflavonoids, DHQ, NAC, and bromelain, work synergistically to moderate unpleasant immune reactions.*[1,4]

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*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.
**AllerDHQ™ Supplement Facts**

**Serving Size:** 2 Capsules

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Amount Per Serving</th>
<th>% Daily Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vitamin C (ascorbic acid)</td>
<td>200 mg</td>
<td>222%</td>
</tr>
<tr>
<td>Quercetin (as quercetin dihydrate)</td>
<td>400 mg</td>
<td>**</td>
</tr>
<tr>
<td>Stinging Nettle Aqueous Extract</td>
<td>200 mg</td>
<td>**</td>
</tr>
<tr>
<td>Bromelain (2400 GDU/g)</td>
<td>100 mg</td>
<td>**</td>
</tr>
<tr>
<td>N-Acetyl-L-Cysteine</td>
<td>100 mg</td>
<td>**</td>
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</tbody>
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**DHQvital®** Dihydroquercetin (from larch tree extract) [Larix *sukaczewii*, *Larix cajanderi*, *Larix gmelinii*, *Larix russica*, *Larix sibirica ledeb*], DHQvital is a trademark of Berg Imports, LLC.

**Other Ingredients:** HPMC (capsule), dicalcium phosphate, stearic acid, magnesium stearate, silica, and medium-chain triglyceride oil.

**DIRECTIONS:** Take one to two capsules daily, or as directed by your healthcare practitioner.

Consult your healthcare practitioner prior to use. Individuals taking medication should discuss potential interactions with their healthcare practitioner. Do not use if tamper seal is damaged.

**CAUTIONS:** Do not use if you are pregnant or lactating.

**STORAGE:** Keep closed in a cool, dry place out of reach of children.

**DOES NOT CONTAIN:** Wheat, gluten, yeast, soy, animal or dairy products, fish, shellfish, peanuts, tree nuts, egg, ingredients derived from genetically modified organisms (GMOs), artificial colors, artificial sweeteners, or artificial preservatives.

**References:**

3. Strohle A, Wolters M, Hahn A. Micronutrients at the interface between inflammation and infection—ascorbic acid and calciferol: part 1, general overview with a focus on ascorbic acid. *Inflamm Allergy Drug Targets.* 2011 Feb;10(1):54-63. [PMID: 21184650]

Additional references available upon request.