

The cardiovascular system consists of the heart and blood vessels. Through this system, blood circulates throughout the body. All body organs and tissues need a supply of blood to receive nutrition and to remove waste products.

Lifestyle is a major factor in cardiovascular disease. A poor diet, lack of exercise, and smoking all contribute to making cardiovascular disease the biggest killer in North America. Changing your lifestyle, and using supplements such as alpine wild garlic, can help you maintain your cardio health.



Week), and in 1992, was declared the European medicinal “Plant of the Year” by the Association for the Protection and Research on European Medicinal Plants.

A. ursinum

Garlic has a long history as a healthful plant, having been used for medicinal purposes from as early as 3000 B.C. Garlic is made up of sulfur compounds; amino acids; minerals, such as germanium, selenium, and zinc; and vitamins A, B, and C. Allicin, a sulfur-containing compound in garlic, is traditionally believed to be primarily responsible for most of the suggested benefits of garlic. Allicin is also responsible for garlic’s unique odor.

A. ursinum and *A. sativum* share these constituents as well as a number of benefits. Both types of garlic help maintain healthy cholesterol levels, have antioxidant properties, and have antifungal and antibacterial properties. However, *A. ursinum* has a number of advantages over *A. sativum*.

A. ursinum contains allicin and its related forms, as well as more ajoene (a degraded form of allicin) and its related forms, more γ -glutamyl peptides (GLUT), and more than 20 times as much adenosine.

Current opinion states that the γ -glutamyl peptides and ajoene result in an increase in the difference across the membrane of the vascular smooth muscle. This, in turn, results in a widening of blood vessels, which maintains healthy blood pressure.

γ -glutamyl peptides have also been demonstrated to inhibit the actions of angiotensin I-converting enzyme (ACE), an enzyme released from the kidneys that regulates blood pressure.

Adenosine helps increase blood vessel width and can also reduce platelet aggregation (blood stickiness). It also acts as a muscle relaxant and as a protectant against poisons, such as caffeine.

What is AIM Bear Paw Garlic®?

AIM Bear Paw Garlic® is a unique form of garlic. It is not derived from *Allium sativum*, the species of garlic sold in supermarkets and used in garlic supplements. Rather, AIM Bear Paw Garlic® comes from *Allium ursinum*, a wild species of garlic found in central Europe.

Unlike *A. sativum*, *A. ursinum* has never been successfully cultivated. (Apparently, the eighth-century ruler Charlemagne attempted to cultivate the plant for medicinal purposes, but there is no record of his success.) *A. ursinum* is found in areas of damp woods and wooded ravines and flourishes in the hills and mountains of central Europe. Its name is derived from the claim that bears, after awakening from winter hibernation, consume wild garlic to regain strength (*ursinum* is Latin for “bear”). Although most of us think of the distinctive garlic bulb and cloves when considering garlic, the active substances in *A. ursinum* are found in its green leaves.

Although largely unknown in the United States, in 1989, *A. ursinum* was called “the new star” of garlic in the German health journal *Therapiewoche* (Therapy

A. ursinum is also odorless; although, when you first open AIM Bear Paw Garlic®, the garlic odor is unmistakable. However, upon digestion the garlic odor is not as noticeable. This is because the leaves of *A. ursinum* contain substantial amounts of chlorophyll, which binds nitrogen compounds during digestion and thus prevents the development of the smell associated with the breakdown products of garlic. As well, allicin is found in lower concentrations in the leaves of *A. ursinum*. However, the lesser amounts of allicin are replaced by other related sulfur-containing constituents, so none of the benefits of allicin are lost.

In summary, *A. ursinum* has all the benefits of the *A. sativum* products that are found on the market. However, *A. ursinum* has three advantages over this domesticated garlic: 1) It has more of the active substances; 2) It has active substances not found in cultivated garlic, or found only when large quantities are taken; 3) It is odorless.

What do European publications have to say about *A. ursinum*?

“Accordingly *Allium ursinum* contains much more ajoene and an about twentyfold higher content of adenosine than its ‘cultivated cousin.’ Just these substances are the ones to which, according to recent studies, an essential part of the known allium effects such as reduction of cholesterol, inhibition of thrombocyte-aggregation, drop in blood pressure, improvement of blood-rheology and fibrinolysis are attributed.”

Therapiewoch (November 1990).

“... *Allium ursinum* is superior to *Allium sativum*, since the latter ... has been overcultivated through several thousand years to a one-sided form.”

Allgemeine Homöopathische Zeitung 211 (1966).

“It is known of *Allium ursinum* that it possesses cholesterol and blood pressure regulating characteristics.”

Natur Heilpraxis mit Naturmedizin (November 1995).

“The water and ethanol extracts of wild garlic were able to reduce the intensity of generated radicals. Thus, it can be assumed that ... *Allium ursinum* has significant antioxidant properties.”

Török, et al. Central Research Laboratory, Pécs, Hungary.

Process

A. ursinum is hand-picked in the spring during a one-week period. It is harvested in the alpine regions of central Europe, in particular Switzerland. Because it is wild and cannot be cultivated, only the leaves are cut; the bulb remains in the earth to ensure future supply.

Once the leaves are harvested, they are processed quickly. They are cleaned, washed, dried, and milled under low temperatures. During this processing, adenosine levels are monitored to guarantee at least 1,100 mg/kg. (For other nutrients, see nutrient profile.)

Allicin—hero or team player?

The sulfur compound allicin has traditionally been credited for garlic’s beneficial effects. However, this may not entirely be the case. Allicin is no doubt partially responsible for garlic’s benefits. But many other substances may act individually or synergistically to produce benefits.

Dallas Cloutre, Ph.D., says, “The general public has been led to believe that all of the primary active constituents are in the lipophilic fractions of garlic, e.g., alliin, allicin, ajoene, etc. This is contrary to the scientific findings—it has been known for more than a decade that the odorless water-soluble fractions of garlic are equal to the oil-soluble fractions in their effects.”

The allicin balloon is further deflated by comments found in John Heinerman’s *The Healing Benefits of Garlic*. He cites the sulfur compounds (such as allicin), but also adenosine, as having beneficial effects. He mentions that allicin is extremely unstable and may not be what it is thought to be: “... don’t be persuaded that just because a particular garlic product claims it contains significant amounts of allicin, this makes it superior to others without it.”

How to use AIM Bear Paw Garlic®

- Take 3 capsules per day. You may take them at any time.
- Close tightly after opening and store in a cool, dry, dark place (70-75 °F; 20.1-23.8 °C). Do not refrigerate.

Nutritional profile

Constituent	AIM Bear Paw Garlic®	<i>A. sativum</i>
	<i>(Minimum guaranteed)</i>	
Sulfur	7,000 mg/kg	6,114 mg/kg
Magnesium	1,600 mg/kg	952 mg/kg
Manganese	230 mg/kg	14 mg/kg
Iron	120 mg/kg	107 mg/kg
Adenosine	1,100 mg/kg	70 mg/kg

These test results are typical—actual quantity may vary with year and season.

Q & A

*Why have I never heard of *A. ursinum*?*

Because it's wild! Because it has never been domesticated, *A. ursinum* has never made it around the world as regular garlic has. And because of this, it has not been subjected to the publicity of the “garlic wars”: the fight for a market share that has done so much to bring garlic to people's attention. It is, however, known in scientific circles and in Europe.

*What is the difference between *A. ursinum* and *A. sativum*?*

Both *A. ursinum* and *A. sativum* come from the same family and share the same active substances and benefits. However, the leaf is used in *A. ursinum* and the bulb is used in *A. sativum*. *A. ursinum* also has higher quantities of many of the active substances than *A. sativum* does and upon digestion has less odor. In particular, *A. ursinum* has more of the water-soluble substances.

Aren't allicin and other fat-soluble substances the only ones of importance in garlic?

No. Although allicin and ajoene are important, there is a wealth of research from Europe indicating that the water-soluble parts of garlic—adenosine, γ -glutamyl peptides, flavonoids, and fructanes—are equally important, if not more beneficial than allicin. As well, allicin has known side effects and is also highly unstable.

What are these water-soluble substances?

We have briefly discussed adenosine and γ -glutamyl peptides in this data sheet. Flavonoids are substances in plants that often have health benefits. Fructanes are significant because they are indigestible sugars known as oligosaccharides. Fructo-oligosaccharides encourage the growth of “good” intestinal bacteria.

Suggested Reading (English only)

Clouatre, Dallas, Ph.D. *Alpine Wild Garlic*. San Francisco: Pax Publishing, 1995.

Sendel, et al. “Comparative Pharmacological Investigations of *Allium ursinum* and *Allium sativum*.” *Planta Medica* 58 (1992).

Because AIM Bear Paw Garlic® shares many of the benefits of *Allium sativum*, any of the many books on this subject would be valuable.

Ask About

Audio interviews with Harry G. Preuss, M.D., and Dallas Clouatre, Ph.D.

Benefits & Features

Benefits

- Helps maintain cardiovascular health
- Helps maintain healthy blood pressure
- Helps maintain healthy cholesterol levels
- Has all the benefits of regular garlic, plus more
- Has antibacterial and antifungal properties for increased immuno health
- Displays antioxidant activity

Features

- More than eight years of safe and beneficial use by AIM Members
- 1,002 mg of alpine wild garlic per 3-capsule serving
- Is odorless upon digestion
- Has high adenosine content
- Has high γ -glutamyl peptide (GLUT) content
- Has never been domesticated
- Active substances found in the leaves, not the bulbs
- 90 vegetarian capsules

Use AIM Bear Paw Garlic[®] and AIM CellSparc 360[®] to help maintain cardiovascular health.

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