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10 Proven Health Benefits of Blueberries

Blueberries are sweet, nutritious and wildly popular.

Often labeled a superfood, they are low in calories and incredibly good for you.

They're so tasty and convenient that many people consider them their favorite fruit.

Here are 10 proven health benefits of blueberries.



1. Blueberries Are Low in Calories But High in Nutrients

The blueberry bush (*Vaccinium* sect. *Cyanococcus*) is a flowering shrub that produces berries with a bluish, purple hue — also known as blueberries.

It is closely related to similar shrubs, such as those that produce cranberries and huckleberries.

Blueberries are small — around 0.2–0.6 inches (5–16 millimeters) in diameter — and feature a flared crown at the end.

They are green in color when they first appear, then deepen to purple and blue as they ripen.

The two most common types are:

- **Highbush blueberries:** The most common cultivated variety in the US.
- **Lowbush or “wild” blueberries:** Typically smaller and richer in some antioxidants.

Blueberries are among the most [nutrient-dense](#) berries. A 1-cup (148-gram) serving of blueberries contains (1):

- **Fiber:** 4 grams
- **Vitamin C:** 24% of the RDI
- **Vitamin K:** 36% of the RDI
- **Manganese:** 25% of the RDI
- Small amounts of various other nutrients

They are also about 85% water, and an entire cup contains only 84 calories, with 15 grams of [carbohydrates](#).

Calorie for calorie, this makes them an excellent source of several important nutrients.

SUMMARY The blueberry is a very popular berry. It is low in calories but high in fiber, vitamin C and vitamin K.

2. Blueberries are the King of Antioxidant Foods

[Antioxidants](#) protect your body from free radicals, which are unstable molecules that can damage your cells and contribute to aging and diseases, such as cancer ([2Trusted Source](#), [3Trusted Source](#)).

Blueberries are believed to have one of the highest antioxidant levels of all common fruits and vegetables ([4Trusted Source](#), [5Trusted Source](#), [6Trusted Source](#)).

The main antioxidant compounds in blueberries belong to a family of polyphenols antioxidants called flavonoids.

One group of flavonoids in particular — anthocyanins — is thought to be responsible for much of these berries' beneficial health effects ([7Trusted Source](#)).

Blueberries have been shown to directly increase antioxidant levels in your body ([8Trusted Source](#), [9Trusted Source](#)).

SUMMARY Blueberries have the highest antioxidant capacity of all the popular fruits and vegetables. Flavonoids appear to be the berries' antioxidant with the greatest impact.

3. Blueberries Reduce DNA Damage, Which May Help Protect Against Aging and Cancer

Oxidative DNA damage is an unavoidable part of everyday life. It is said to occur tens of thousands of times per day in every cell in your body ([10](#)).

DNA damage is part of the reason we grow older. It also plays an important role in the development of diseases like [cancer](#) ([11Trusted Source](#)).

Because blueberries are high in antioxidants, they can neutralize some of the free radicals that damage your DNA.

In one study, 168 people drank 34 ounces (1 liter) of a mixed blueberry and [apple](#) juice daily. After four weeks, oxidative DNA damage due to free radicals was reduced by 20% ([12Trusted Source](#)).

These findings agree with smaller studies that use either fresh or powdered blueberries ([13Trusted Source](#), [14Trusted Source](#)).

SUMMARY Several studies suggest that blueberries and blueberry juice reduce DNA damage, which is a leading driver of aging and cancer.

4. Blueberries Protect Cholesterol in Your Blood From Becoming Damaged

Oxidative damage is not limited to your cells and DNA.

It is also problematic when your “bad” LDL cholesterol is oxidized.

In fact, oxidation of “bad” LDL cholesterol is a crucial step in the heart disease process.

The antioxidants in blueberries are strongly linked to reduced levels of oxidized LDL. This makes blueberries very [good for your heart](#) ([15Trusted Source](#)).

A daily 2-ounce (50-gram) serving of blueberries lowered LDL oxidation by 27% over eight weeks in obese people who were obese ([16Trusted Source](#)).

Another study determined that eating 2.5 ounces (75 grams) of blueberries with a main meal significantly reduced the oxidation of “bad” LDL cholesterol ([17Trusted Source](#)).

SUMMARY The antioxidants in blueberries have been shown to reduce a predominant risk factor for heart disease by preventing oxidative damage to “bad” LDL cholesterol.

5. Blueberries May Lower Blood Pressure

Blueberries appear to have significant benefits for people with high blood pressure, which is a major risk factor for heart disease.

In an eight-week study, obese people who had had a high risk of heart disease noted a 4–6% reduction in blood pressure after consuming 2 ounces (50 grams) of blueberries per day ([18Trusted Source](#)).

Other studies have observed similar effects — especially for postmenopausal women ([19Trusted Source](#), [20Trusted Source](#)).

SUMMARY Regular blueberry intake is tied to lower blood pressure in numerous studies.

6. Blueberries May Help Prevent Heart Disease

While eating blueberries may lower blood pressure and oxidized LDL cholesterol, it's important to keep in mind that these are risk factors — not actual diseases.

It would be much more informative to know whether blueberries help prevent hard endpoints like heart attacks, which are the world's leading cause of death ([21Trusted Source](#)).

A study in 93,600 nurses found that those with the highest intake of anthocyanins — the main antioxidants in blueberries — were at a 32% lower risk of heart attacks compared to those with the lowest intake ([22Trusted Source](#)).

Because this was an observational study, it cannot prove that the anthocyanins alone caused the reduction in risk.

More studies are needed before any claims can be made.

SUMMARY Some evidence indicates that eating fruits rich in anthocyanins — such as blueberries — is associated with a reduced risk of heart attacks.

7. Blueberries Can Help Maintain Brain Function and Improve Memory

Oxidative stress can accelerate your brain's aging process, negatively affecting brain function.

According to animal studies, the antioxidants in blueberries may affect areas of your brain that are essential for intelligence ([23Trusted Source](#), [24Trusted Source](#)).

They appear to benefit aging neurons, leading to improvements in cell signaling.

Human studies have also yielded promising results.

In one of these studies, nine older adults with mild cognitive impairment consumed blueberry juice every day. After 12 weeks, they experienced improvements in several markers of [brain function](#) ([25Trusted Source](#)).

A six-year study in over 16,000 older individuals found that blueberries and strawberries were linked to delays in mental aging by up to 2.5 years ([26](#)).

SUMMARY The antioxidants in blueberries seem to benefit your brain by aiding brain function and delaying mental decline.

8. Anthocyanins in Blueberries May Have Anti-Diabetes Effects

Blueberries provide moderate amounts of sugar compared to other fruits.

One cup (148 grams) holds 15 grams of sugar, which is equivalent to a small apple or large orange ([1](#)).

However, the bioactive compounds in blueberries appear to outweigh any negative impact of the sugar when it comes to [blood sugar control](#).

Research suggests that anthocyanins in blueberries have beneficial effects on insulin sensitivity and glucose metabolism. These anti-diabetes effects occur with both blueberry juice and extract ([27Trusted Source](#), [28Trusted Source](#), [29](#)).

In a study in 32 obese people with [insulin resistance](#), two blueberry smoothies daily caused major improvements in insulin sensitivity ([30Trusted Source](#)).

Improved insulin sensitivity should lower the risk of metabolic syndrome and type 2 diabetes, which are currently two of the world's biggest health problems.

SUMMARY Several studies demonstrate that blueberries have anti-diabetes effects, improving insulin sensitivity and lowering blood sugar levels.

9. May Help Fight Urinary Tract Infections

[Urinary tract infections](#) (UTIs) are a common problem for women.

It is widely known that cranberry juice can help prevent these types of infections.

Because blueberries are closely related to cranberries, they boast many of the same active substances as cranberry juice ([31Trusted Source](#)).

These substances are called anti-adhesives and help prevent bacteria like *E. coli* from binding to the wall of your bladder.

Blueberries have rarely been studied for their impact on UTIs, but they likely have similar effects as cranberries ([32Trusted Source](#)).

SUMMARY Like cranberries, blueberries contain substances that can prevent certain bacteria from binding to the wall of your bladder, which may help prevent UTIs.

10. Blueberries May Reduce Muscle Damage After Strenuous Exercise

Strenuous [exercise](#) can lead to muscle soreness and fatigue.

This is driven partly by local [inflammation](#) and oxidative stress in your muscle tissue ([33Trusted Source](#)).

Blueberry supplements may lessen the damage that occurs at a molecular level, minimizing soreness and reduced muscle performance.

In a small study in 10 female athletes, blueberries accelerated muscle recovery after strenuous leg exercises ([34Trusted Source](#)).

SUMMARY One study suggests that blueberries may aid muscle recovery after strenuous exercise, though more research is needed.

The Bottom Line

Blueberries are incredibly [healthy](#) and nutritious.

They boost your heart health, brain function and numerous other aspects of your body.

What's more, they're sweet, colorful and easily enjoyed [either fresh or frozen](#).