

CARDAMOM

"The Queen of Spices"

Angeline Jeyakumar¹, Andrea Gastelum²,

¹Nutrition Specialist; Extension; Department of Nutrition, University of Nevada, Reno.

²Dietetic Technician Registered, Department of Nutrition, Truckee Meadows Community College.

1. Cardamom is a plant that grows year after year (perennial), originally from India and Indonesia.
2. The pod that contains black seeds gives it a strong smell and a sweet flavor.
3. The spice is used in meat, vegetable preparations, desserts and a variety of other dishes.
4. In Sweden and most Scandinavian countries, cardamom is very common in baked goods ¹.

What is in cardamom?

The spice has a variety of plant-derived compounds that contribute to the spice's anti-inflammatory properties.

Cardamom has some plant-derived constituents (essential oils), along with other nutrients. These constituents extracted as cardamom essential oil have several biological roles mentioned above ⁶.

Cardamom has been used as a spice and medicine. It has properties similar to the drugs that affect our system (pharmacological) such as antioxidant, **anti-inflammatory**, anticancer, and antimicrobial.

The above terms mean that they protect our body cells, reduce the risk of cancer, and lower **inflammation**.



Inflammation is a response to injury or infection, such as pain, redness or swelling. A similar response continues for months or years with diseases of the heart, diabetes, arthritis and other chronic diseases.

ANTI-INFLAMMATORY means any agent that can reduce pain or similar responses to injury, infection and chronic diseases.

What do studies say about the health benefits?

- **Prediabetes:** A study conducted among people with prediabetes concluded that cardamom could improve inflammation and stress-related outcomes ². ***
- **Blood glucose and lipid levels:** Evidence from multiple studies suggests that different extracts of green cardamom can control blood sugar and cholesterol levels, and reduce inflammation ³. ***
- **Polycystic ovarian syndrome (PCOS):** Obese women who suffered from this condition showed reduced inflammation ⁴. ***

Functional Foods

Research is ongoing to further support the above evidence.

Strength of evidence

*** Strong ** Moderate * Basic

How is cardamom traditionally used?

Cardamom is also linked to the following health benefits:

- Helps with digestion
- Freshens breath
- Balances blood sugar levels
- Lowers blood pressure
- May help with bronchitis
- Acts as a stimulant, improving circulation
- Removes digestion-related discomfort during pregnancy
- May help prevent stomach ulcers ⁵ **

How much cardamom is safe to consume?

About 1.5–3 grams/day, which is about ½ tsp per day⁵

- Adding cardamoms to food is safe.
- Consult your physician about the usage of supplements or concentrated extracts.
- Functional foods, including cardamom, should not replace a healthy diet or prescribed medication.
- Effects can differ from person to person.

How to use cardamom?

- **Tea:** Bring 2 cups of water to a low boil. Lightly crush 4 cardamom pods and add to the boiling water. Simmer on low for five minutes. Strain into a teapot and enjoy.
- **Baked goods:** Cardamom can be added to bread and baked goods.

- **Dishes inspired by Indian cooking:** Vegetable, protein dishes and Indian rice pudding (kheer) use cardamom for flavor.

References

1. Berg F. "What Is Cardamom?" Food Network. Food Network Kitchen. 2025.
<https://www.foodnetwork.com/how-to/packages/food-network-essentials/kosher-salt-vs-sea-salt>
2. Kazemi S, Yaghooblou F, Siassi F, et al. Cardamom supplementation improves inflammatory and oxidative stress biomarkers in hyperlipidemic, overweight, and obese pre-diabetic women: a randomized double-blind clinical trial. *Journal of the Science of Food and Agriculture*, 2017;97(15):5296-5301. doi:10.1002/jsfa.8414
3. Yahyazadeh R, Ghasemzadeh Rahbardar M, Razavi BM, Karimi G, Hosseinzadeh H. The effect of Elettaria cardamomum (cardamom) on the metabolic syndrome: Narrative review. *Iranian Journal of Basic Medical Sciences*. 2021;24(11). doi:10.22038/ijbms.2021.54417.12228
4. Cheshmeh S, Ghayyem M, Khamooshi F, et al. Green cardamom plus low-calorie diet can decrease the expression of inflammatory genes among obese women with polycystic ovary syndrome: a double-blind randomized clinical trial. *Eating and Weight Disorders*. 2021;27(2):821-830. doi:10.1007/s40519-021-01223-3
5. Singletary K. Cardamom: Potential Health Benefits. *Nutrition Today*. 2022;57(1):38-49. doi:10.1097/NT.0000000000000507
6. Ashokkumar K, Murugan M, Dhanya MK, Warkentin TD. Botany, traditional uses, phytochemistry and biological activities of cardamom [*Elettaria cardamomum* (L.) Maton] A critical review. *Journal of Ethnopharmacology*. 2020;246:112244. doi:10.1016/j.jep.2019.112244

Contact: ajeyakumar@unr.edu

Phone: 775-336-0275

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