NOx Boost

Get Powered by NOx Boost

- Provides the revered benefits of beets in a convenient lozenge
- Enhances endurance, performance and oxygenation
- AOR's world-first fast-acting formula

Details
Nitric oxide is a simple molecule produced in the body that carries out numerous functions, such as vasodilation, improving blood flow, oxygenation and nutrient delivery to the tissues, cell communication, immune responses, bone formation, and has antimicrobial and stomach healing properties, among others. With age, our bodies produce less nitric oxide but are still able to respond to it. Nitrates and nitrites from healthy foods such as beets, spinach, celery, and others are converted into nitric oxide within the body.

NOx Boost not only boosts your body's nitric oxide levels, it does it quickly and in both high and low oxygen conditions, unlike other methods such as L-arginine. AOR was the first nutraceutical company in the world to capitalize on the direct conversion of nitrate and nitrite to nitric oxide within the body, and the first to revolutionize its delivery through fast-acting lozenge form. NOx Boost can provide both a health boost and a performance boost. NOx Boost lozenges are naturally coloured and flavoured with fruit and vegetable powders, and naturally sweetened with mannose and with thaumatin, a low-glycemic protein extracted from katemfe fruit.

Discussion
NOx Boost contains antioxidants for the maintenance of good health.
Product Variation
Product Code          Size
AOR14011             60 LOZENGES

Supplements Facts
Serving Size: 1 lozenge                  Amount
Vitamin C             50 mg

Non-medical ingredients:
fruit and vegetable juice powders (red beetroot, red raspberry, blueberry, bilberry), potassium nitrate (providing 25 mg nitrate), mannose, xanthan gum, cellulose gum, maltodextrin, thaumatin, sodium stearyl fumarate.

Guarantees
AOR™ guarantees that all ingredients have been declared on the label. Contains no wheat, gluten, nuts, peanuts, sesame seeds, sulphites, mustard, dairy, eggs, fish or shellfish.

Adult Dosage
Dissolve 2 lozenges in the mouth daily with/without food, or as directed by a qualified health care practitioner.

Cautions
Do not use if pregnant or breastfeeding or with erectile dysfunction-type products.

Source
Fruit and vegetable juice powders (red beetroot, red raspberry, blueberry, bilberry)
Thaumatin - Katemfe fruit
Mannose - corn
Xanthan gum - biofermentation
Pharmaceutical synthesis

Main Application
Energy/Fatigue
Endurance
Anti-aging
Cardiovascular health
Disclaimer

The information and product descriptions appearing on this website are for information purposes only, and are not intended to provide or replace medical advice to individuals from a qualified health care professional. Consult with your physician if you have any health concerns, and before initiating any new diet, exercise, supplement, or other lifestyle changes.

Research

Background

Nitric Oxide: A Supercharging Powerhouse

A Nobel Prize Winning Molecule

Nitric Oxide is a simple, yet powerful molecule responsible for an array of health promoting benefits, such as increased oxygenation and vasodilation (opening of the blood vessels) and reducing inflammation. It also supports immunity, gastrointestinal health, skin health and more. As a result, it is a highly researched molecule which led to it winning Molecule of The Year in 1992 and The Nobel Prize for Medicine or Physiology in 1998.

Nitrate Rich Foods Are Phenomenal!

Nitrate that are naturally occurring in plant foods such as beets, celery and spinach are responsible for increased health benefits because they are converted to Nitric Oxide within the body. Nitric Oxide synthesis is also based on the successful conversion of inorganic nitrates in the form of sodium and potassium nitrate. In fact, breast milk is also rich in nitrate. Plant based nitrates are naturally and intelligently accompanied by powerful antioxidants such as vitamin C. This is why AOR’s Nitric Oxide boosting NOx products are so beneficial, seeing they are inspired by beets and other nitrate rich plant foods! Our process utilizes the direct conversion pathway of inorganic nitrates into Nitric Oxide within the body which is complemented by our proprietary blend of antioxidants to ensure healthful benefit.

The Ultimate Supercharger

Once Nitric Oxide is utilized correctly, safely and efficiently, its possibilities are endless to say the least. Seeing it is such a diverse molecule, with a multitude of actions, it is also a powerful “supercharger” because it is able to enhance the action of a substance with which it shares similar effects and improve its bioavailability. This is why we developed the NOx combined products, which are highly effective at a smaller dose.

Debunking the Bad Rap

Unfortunately, nitrates have suffered a bad reputation and are a hot bed of controversy. Nitrates have been linked to the health problems associated with cured meats, increased risk of cancer, blue baby syndrome, and environmental problems and water contamination associated with fertilizers.
Fortunately, the evidence tells us that dietary nitrates are safe and necessary for health and vitality. AOR is the first nutraceutical company to carefully examine all available research, to challenge the myths about the danger of nitrates, and to bring to light the truth about their importance for good health.

Preserved Meats: One of the main issues surrounding nitrates is the potential formation of N-Nitrosamines, which are associated with the consumption of “cured” meats, i.e. preserved with nitrites, not nitrates. N-Nitrosamines have indeed been linked to health risks, but very specific conditions need to be present in order for them to form and become dangerous. Nitrite, not nitrate, must be present along with short-chain saturated fats combined with secondary amines found in animal proteins, high cooking temperatures of 130°C or more, and the burning and charring methods used in smoking or curing meats. All of these factors must be present in order to form N-Nitrosamines, and it is this lethal combination that creates the true link to cancer.

Blue Baby Syndrome: Blue baby syndrome was thought to be caused by high nitrate in the water supply. However, the actual cause of the problem was later found to be the presence of bacteria in the water, not the nitrate.

Fertilizers: Too much of a good thing is often not good. It is true that excessive amounts of nitrate in water run-off from fertilizers can cause environmental disturbances. Excessive amounts of anything naturally present will alter the ecosystem and cause problems, but this must not cause us to think that dietary nitrates naturally found in foods are dangerous!

Now you have a clearer picture of the true benefits of nitrates and the unfounded fears created by their unsubstantiated claims. Take control of your health and reap the benefits of this previously controversial nutrient. Try one of our NOx based products today, and be amazed with the results!

Designed with the athlete in mind, NOx Boost is just that, a boost in all the right places, enhancing performance, endurance and oxygenation. NOx Boost is a natural beet and berry flavoured lozenge containing vitamin C, and a natural source of nitrate. It is also naturally sweetened with a fruit-derived protein called “katemfe”, which is a lower glycemic sweetener.

Not only does NOx Boost increase oxygen levels, it assists the body in using it more effectively. This is in part due to Nitric Oxide’s ability to reduce blood pressure and improve blood flow, which improves the delivery of oxygen and nutrients to the tissues, meaning less sore muscles and faster recovery times. It has also been clinically demonstrated to reduce time to fatigue, and many athletes report a decrease in their completion times. The lozenge delivery system facilitates a quicker conversion of nitrates to Nitric Oxide.

Nitrates produce Nitric Oxide in the body which acts as an antimicrobial, promotes skin health, modulates the inflammatory response, and promotes wound healing, among other benefits.
NOx Boost is an excellent choice for athletes, gym-goers and sports enthusiasts due to its faster conversion rate of nitrate to Nitric Oxide, as well as those needing a boost during their busy, high-stress day. Since the body’s Nitric Oxide production decreases with age, NOx Boost is a great candidate for anyone looking to restore the youthful effects of Nitric Oxide in the body. Nitric Oxide-enhancing supplements are essential for cardiovascular support and are a great addition to any supplement regimen to maximize the delivery of nutrients to the tissues.

To learn more about common myths and the safety of nitrates and nitrites, click here to go to the FAQ tab.

**Market Trends**

The Mediterranean diet is considered one of the healthiest diets in the world, however many people have difficulty consuming enough of the right types of food that promote its well-known health benefits. This is what makes vitamins and supplements so popular.

**AOR Advantage**

NOx Boost lozenges from AOR give you a fast acting health boost, providing vital nutrients found in a healthy Mediterranean diet. AOR is proudly Canadian.

**References**


Miller GD, Marsh AP, Dove RW, Beavers D, Presley T, Helms C, Bechtold E, King SB, Kim-Shapiro


Abstract

Nitrate causes a dose-dependent augmentation of nitric oxide status in healthy women.


Bondonno CP, Croft KD, Puddey IB, Considine MJ, Yang X, Ward NC, Hodgson JM.

Green leafy vegetables, high in dietary nitrate, may contribute to cardiovascular health by augmenting nitric oxide status. The exogenous enterosalivary pathway of nitrate reduction to nitrite appears to be a critical determinant of the effects of nitrate. Our primary objective was to investigate the dose-response of nitrate intake on nitric oxide status and nitrate reduction in the mouth. We also assessed whether antibacterial toothpaste can inhibit nitrate reduction and blunt subsequent increases in circulating nitric oxide. A randomised, controlled, crossover trial with healthy women (n = 16) was conducted. The acute effects of four doses of nitrate (0 mg, 100 mg, 200 mg, 400 mg, as well as 400 mg plus antibacterial toothpaste), administered in random order, were compared. Measurements included biomarkers of plasma nitric oxide status, assessed by measuring S-nitrosothiols other nitroso species (RXNO) and nitrite, and a biomarker of nitrate reduction in the mouth, assessed by measuring salivary nitrite. Compared to 0 mg, all doses of nitrate resulted in higher plasma RXNO and nitrite, and salivary nitrite (P < 0.05). A linear dose-response to nitrate intake was observed with plasma RXNO and nitrite, and salivary nitrite (P < 0.001). Antibacterial toothpaste did not alter nitrate reduction in the mouth (P > 0.9) or blunt the increase in nitric oxide status (P > 0.9). Thus, our study has demonstrated that increasing nitrate intake results in a dose-related increase in nitrate reduction in the mouth and nitric oxide status, and that use of antibacterial toothpaste does not inhibit nitrate reduction or blunt increases in circulating nitric oxide.


[Vitamin C and its physiological role with respect to the components of the immune system].
Holmannová D, Kolářková M, Krejsek J.

Vitamin C is a water soluble micronutrient commonly found in our diet which orchestrates the function of both innate and adaptive immune system, influencing both cellular and humoral immune responses. Vitamin C inhibits excessive activation of the immune system to prevent tissue damage, but also supports antibacterial activity, stimulates NK cells and differentiation of Th0 subset into Th1 characterized by interferon γ production. In addition, vitamin C interferes with the synthesis of proinflammatory cytokines, or with the expression of adhesive molecules. Moreover, vitamin C as an antioxidant protects the immune cells against intracellular ROS (reactive oxygen species) formed in the inflammatory response. Vitamin C as an enzymatic cofactor is extremely important in maintaining tissue integrity, and plays a crucial role in formation of skin, epithelial and endothelial barriers.

Plasma nitrate and nitrite are increased by a high-nitrate supplement but not by high-nitrate foods in older adults.


Miller GD, Marsh AP, Dove RW, Beavers D, Presley T, Helms C, Bechtold E, King SB, Kim-Shapiro D.

Little is known about the effect of dietary nitrate on the nitrate/nitrite/nitric oxide cycle in older adults. We examined the effect of a 3-day control diet vs high-nitrate diet, with and without a high-nitrate supplement (beetroot juice), on plasma nitrate and nitrite kinetics and blood pressure using a randomized 4-period crossover controlled design. We hypothesized that the high-nitrate diet would show higher levels of plasma nitrate/nitrite and lower blood pressure compared with the control diet, which would be potentiated by the supplement. Participants were 8 normotensive older men and women (5 female, 3 male, 72.5 ± 4.7 years old) with no overt disease or medications that affect nitric oxide metabolism. Plasma nitrate and nitrite levels and blood pressure were measured before and hourly for 3 hours after each meal. The mean daily changes in plasma nitrate and nitrite were significantly different from baseline for both control diet supplement (P < .001 and P = .017 for nitrate and nitrite, respectively) and high-nitrate diet supplement (P = .001 and P = .002), but not for control diet (P = .713 and P = .741) or high-nitrate diet (P = .852 and P = .500). Blood pressure decreased from the morning baseline measure to the three 2-hour postmeal follow-up time points for all treatments, but there was no main effect for treatment. In healthy older adults, a high-nitrate supplement consumed at breakfast elevated plasma nitrate and nitrite levels throughout the day. This observation may have practical utility for the timing of intake of a nitrate supplement with physical activity for older adults with vascular dysfunction.