Resvoxitrol is a unique combination of phytonutrients designed to enhance antioxidant potential by stimulating Nuclear factor-erythroid-2-related factor 2 (Nrf2), a dynamic pathway known to increase the production of a vast array of the body’s most important cellular antioxidants. This exclusive blend of pterostilbene, resveratrol, broccoli seed extract, pomegranate and alpha lipoic acid has a wide array of biological activity including direct free radical scavenging potential as well as inducing intracellular antioxidant production. These potent phytochemicals are the basis of many “superfoods” and have extensive, peer-reviewed research supporting their dramatic effect on cell health and longevity.

Overview

Nrf2 is a binding-protein that plays a significant role in the antioxidant response of the body.\textsuperscript{[1]} It is the primary cellular defense against the cytotoxic effects of oxidative stress. This key protein rests inside the cell and is unable to move or operate until it is released by an Nrf2 activator. Once released, it migrates into the cell nucleus and bonds to the DNA at the location of the antioxidant response element (ARE), which is the master regulator of the total antioxidant system available within each cell. Studies suggest that Nrf2 plays an important role in supporting the activation of cellular antioxidant systems as well as inflammatory balance.\textsuperscript{[1]} A number of fruit and vegetable compounds have been shown to increase Nrf2. It is believed that these compounds have a protective effect on the body, help maintain a healthy cycle of inflammation, and induce cellular longevity.\textsuperscript{[1,2]}

Pterostilbene\textsuperscript{†}

Plants contain compounds called phytochemicals that have numerous health benefits. Stilbenes make up a subgroup of phytochemicals and have potent antioxidant properties. They are produced when the plant is exposed to an environmental threat and must be protected.\textsuperscript{[3]} Pterostilbene is a specific stilbene found in plant varieties like deerberry, rabbiteye blueberries, unripe Pinot noir grapes, and Botrytis vinifera-infected Chardonnay grapes and Xarello grapes.\textsuperscript{[3]} In vitro studies show pterostilbene significantly enhances expression of antioxidant enzymes, such as heme oxygenase-1 (HO-1) and glutathione reductase (GR), via activation of Nrf2 signaling.\textsuperscript{[3-8]} Some studies have shown that antioxidant benefits may be improved when pterostilbene is combined with quercetin.\textsuperscript{[4]}

Resveratrol\textsuperscript{†}

Resveratrol, like pterostilbene, is a stilbene found in many plants and red wines. It is the most well-researched stilbene. Studies of resveratrol have found it to enhance the potential of antioxidant and detoxification activity.\textsuperscript{[9-11]} Other studies have linked resveratrol to enhancing blood sugar balance and for its ability to improve cognitive health.\textsuperscript{[12]}

Broccoli Seed Extract\textsuperscript{†}

Broccoli seed extract has the highest levels of glucoraphanin (a potent Nrf2 stimulator) of any broccoli product available. Glucoraphanin is a phytochemical compound that acts as the precursor to sulforaphane. Sulforaphane is the leading compound in broccoli and responsible for many of its positive benefits. These compounds and their mechanisms have been studied extensively and supported by more than 500 scientific
Publications. Sulforphane is a potent antioxidant shown to support detoxification, and inflammatory balance. Studies show sulforphane works by improving hormone balance and increasing functional enzymes that support excretion of toxins from the body. The activity of broccoli seed extract has been shown to remain active within the body for up to three days following consumption.

**Quercetin**
Quercetin is a bioflavonoid found in high concentrations in onions, garlic, horseradish and other fruits and vegetables. Quercetin has been shown to enhance antioxidant activity, regulate inflammatory balance and support strong cardiovascular function.  

**Pomegranate Fruit Extract**
The pomegranate is a phytochemical-rich fruit that contains ellagic acid, punicalagins, anthocyanidins and flavonoids – all compounds shown to increase plasma antioxidant levels. The pomegranate fruit extract used in Resvoxitrol is an extract of the whole fruit. The whole fruit is squeezed to remove the juice, and the extract is made from the remaining pulp, seeds, and skin. This extract is standardized to contain no less than 40% punicosides. Pomegranate fruit extract supports antioxidant activity, healthy microbial activity and inflammatory balance. Recent studies have shown supplementing pomegranate enhances cardiovascular function when consumed regularly.

**Alpha Lipoic Acid**
Alpha lipoic acid is an antioxidant made by the body and is found in every cell, where it helps turn glucose into energy. It is a potent antioxidant capable of restoring other antioxidants, including vitamin C, vitamin E and glutathione. Studies show that lipoic acid scavenges free radicals, supporting optimal antioxidant activity and inflammatory balance. In some studies, alpha lipoic acid has been shown to support nerve function and improve cognitive health.

**Directions**
2 capsules per day or as recommended by your health care professional.

**Does Not Contain**
Gluten, yeast, artificial colors and flavors.

**Cautions**
Do not consume this product if you are pregnant or nursing. Consult your physician for further information.

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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.*
References


