

IMMUNO-VIVA™

Pure Fruit & Herb Seed Oils

Nature's Plant Sources – Omega 3's & Antioxidants – NatureFRESH-Cold Press™ – Dietary Supplement

Dynamic Nutritional Support for Optimal Immune Function and Cardiovascular Health*

The Health-Promoting Power of Pure Black Cumin and Black Raspberry Seed Oils

Provides vital phytonutrients and antioxidants—including tocopherols, tocotrienols, omega-3 essential fatty acids—for scientifically proven nutritional support of multiple health issues.* Nutritionally supports normal immune system function and intrinsic anti-inflammatory mechanisms*



IMMUNO-VIVA is a patent-pending† blend of black cumin (*Nigella sativa*) and black raspberry (*Rubus occidentalis*) seed oils that delivers a novel and naturally occurring ratio of nutritional factors not available in fish or other vegetable oils. Diets deficient in essential fatty acids (EFAs) and antioxidants have been researched for their association with some chronic skin conditions such as acne, eczema and dandruff, and more recently, many serious health conditions including, cardiovascular, cancer and hormonal disorders.*

Historically known as 'black seed,' 'black caraway,' and most commonly as 'black cumin seed,' the properly extracted oil and dried seed flour has been revered for centuries in the Middle East, Asia and Europe. Black Cumin is traditionally used to treat respiratory illnesses, gastrointestinal ailments, circulatory problems and as a digestive 'tonic.'*

ORAC measurements (a standardized analytical methodology testing antioxidant potency) conducted at an independent laboratory on Botanic Oil Innovations black cumin seed oil revealed it exhibited one of the highest total antioxidant values among plant oils.**

While numerous scientifically valid research studies on black cumin have been conducted – focusing on the botanical's reputed, antihistamine, anti-tumor, antimicrobial, and anti-inflammatory impact on human health – results are not conclusive in various applications and more research is being conducted by Botanic Oil Innovations to further validate centuries of popular use and modern findings.*

Black raspberry (*Rubus occidentalis*) seed oil contains 90% polyunsaturated fatty acids (including 35% omega-3 essential fatty acids) as well as an assortment of highly antioxidant polyphenol compounds, including natural vitamin E tocopherols (alpha, beta and gamma) and tocotrienols.

*ORAC measurements of Botanic Oil Innovations black raspberry seed oil also revealed one of the highest total antioxidant values among all plant oils.***

IMMUNO-VIVA is the subject of ongoing scientific research at the University of Minnesota Medical School's immunology laboratory and other science-based institutions. Botanic Oil Innovations is pioneering science-based research into the exceptionally promising botanical oils used to formulate IMMUNO-VIVA and the synergistic formulation itself, as an adjunct component of conventional and complementary treatment protocols. The diversity and ratio of nutritional factors found only in IMMUNO-VIVA provide powerful support for daily health maintenance as well.*

Pure Plant Ingredients in a Unique, Proprietary Ratio

Black Cumin (*Nigella sativa*) contains more than one hundred plant constituents, including Essential Fatty Acids (EFA's), volatile oils, trace elements and other phytonutrients. Black cumin seed oil contains 80% polyunsaturated fatty acids and is a rich source of volatile oils, beta sitosterol and saponins.

Bringing Out The Best In Nature – Naturally™



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Proprietary Extraction Technology Ensures Potency and Purity

IMMUNO-VIVA is gently extracted at low temperatures without solvents, using our proprietary Nature FRESH-Cold Press™ technology to optimize yields of beneficial phytochemicals and nutrients. This exclusive technology creates an all-natural dietary supplement that is a super-source of health-promoting nutrients manufactured without the use of potentially harmful solvent residues, such as hexane. IMMUNO-VIVA is also free of yeast, preservatives, artificial colors and excipients (additives).

When precisely combined to create IMMUNO-VIVA, the combined impact of Botanic Oil Innovations black raspberry and black cumin seed oils produces an unparalleled synergy of potent antioxidants and desirable health benefits.*

Convenient and Easy to Use

IMMUNO-VIVA may be taken orally or used as an ingredient in soups, salads, sauces, shakes or other foods, enhancing patient compliance. As little as one teaspoon per day provides a nutritionally beneficial adjunct to the daily diet for the purpose of boosting and maintaining healthy well being.*

* This statement has not been evaluated by the Food & Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.

† The U.S. Patent Office has published a patent application for a Method of Cancer Treatment with claims on the use of a biotherapy involving attenuated bacteria with Interlukin-2 in combination with the potent antioxidant oils found in IMMUNO-VIVA.

**Brunswick Laboratories (Massachusetts)
{analytical assessment commissioned by Botanic Oil Innovations, Inc}

References:

Elkadi, A., Kandil, O. The Black Seed and Immunity: It's effects on Human t-Cell Subsets. Federation of American Societies for Experimental Biology. Vol. 46, No. 4: March 1987

Al-Ghandi, M. S., The Anti Inflammatory, Analgesic and Antipyretic Activity of Nigella Sativa, Department of Pharmacology, King Faisal University, College of Medicine, Dammam, Saudi Arabia, J Ethnopharmacol 2001 June; 76(1):45-8

Black cumin oil has been demonstrated in animal studies to act as an immune system modulator and stimulator; specifically T8 and NK cells.
[unpublished research]
Daniel Saltzman, MD, PhD, University of Minnesota Medical School

The thymoquinone and nigellon work in the conversion of linolenic acid into the production of prostaglandin E1 which in turn generate critical regulatory functions in the body.
Sylvia Luetjohann, Healing Power of Black Cumin, 1st English Edition, Lotus Light Publications, 1998

In randomized double blind, pre-clinical trials IMMUNO-VIVA contributed to a significant increase in Natural Killer cells and CD-8T cells.
[unpublished research]
Daniel Saltzman, MD, PhD, University of Minnesota Medical School

Preclinical research at the University of Minnesota Medical School has demonstrated black raspberry seed oil to be an immune system modulator and stimulator, specifically encouraging balanced growth of T8 and NK cells.
Arnold Leonard, MD, PhD, Daniel Saltzman, MD, PhD, Studies of the Immune Enhancement Properties of Black Raspberry Seed Oil, University of Minnesota Medical School. 2004.

In vitro research demonstrated the ingredients in IMMUNO-VIVA have the ability to inhibit Cox-2 enzymes more effectively than aspirin, potentially making it an effective anti-inflammatory nutritional supplement.
Liangli Yu, PhD; Mark Mueller, Use of Specialty Cold Pressed Edible Seed Oils, Flours and or their Blends as Anti-Inflammatory Agents
[unpublished research] University of Maryland 2005

University of Minnesota pre-clinical studies of the oils of both black raspberry and black cumin were synergistic with human Interlukin-2 gene in reducing liver metastasis in a colon cancer experimental model.
[should this be revealed on the eve of trials?]

Fatty Acid Composition and Oxidative Stability of Cold Pressed Edible Seed Oils: The antioxidant properties of Cold-Pressed black caraway (Nigella s.) oil was analyzed by Lucy Yu, PhD and associates at the Department of Food Science and Human Nutrition, Colorado State University, Fort Collins, Co. This research was published in the Journal of Agriculture Food Chemistry 2002 and concluded:

- ED50 caraway extracts quenched 50% of the DPPH radicals under experimental conditions and may provide protection against free radical chain reactions in physiological and food systems.
- Black caraway exhibited a chelating activity and may provide protection against transition metal induced oxidation. (chelating activity of black caraway extract was expressed as EDTA equivalents (mg/ml)
- Black caraway extract was shown to inhibit the in vitro oxidation of LDL suggesting it may provide protection against atherosclerosis.

University of Minnesota studies demonstrate Immuno-Viva to have marked increase in antioxidant activities when compared to conventional vegetable oils such as corn oil and olive oil.

Pending human clinical studies are planned to start in 2006 for use of Immuno-Viva in enhancing the immune system of female breast cancer patients, post chemotherapy, in elderly population and in reducing risk factors of vascular resistance, blood pressure and lipid profile in type 2 diabetics and heart patients.

