

NutriClear® *Plus*

15-Day Metabolic Cleanse Program

Delicious | Safe | Convenient | Easy-to-Follow

NutriClear® *Plus* is a science-based metabolic cleanse program formulated to revitalize the body's natural detoxification capabilities. Designed with efficacy and convenience in mind, **NutriClear® *Plus*** includes nutrients targeted for digestive, antioxidant, and liver support, and is packaged in an easy-to-use program.

The **NutriClear® *Plus* 15-Day Metabolic Cleanse Program** is packaged for convenience and contains:

- 30 pouches of **NutriClear® *Plus*** powder
- 30 **NutriClear® *Plus*** supplement packets, which include 5 capsules supplying the active constituents from: **Bromelain Plus CLA™**, **Beta-TCP™**, **Livotrit Plus®**, **BioProtect™**, and **MCS-2™**
- 1 Shaker Cup
- 1 Guidebook

Benefits of **NutriClear® *Plus***

- Supports body's detoxification pathways
- Provides balanced broad spectrum antioxidants and synergists
- Provides nutritional support for bile production and biliary status
- Supports digestive function
- Provides support for healthy inflammatory processes
- Addresses the needs of the GI tract

By supplying key nutrients in a delicious-tasting powder, **NutriClear® *Plus*** provides the ideal nutritional foundation for those in need of metabolic clearing, while also supporting hepatic function, energy production and intestinal balance. The formula includes easily digested, certified organic pea protein, medium chain triglycerides, added fiber and an extensive array of antioxidants. This powerful combination of micronutrients, **NitroGreens®**, fiber, fruit and vegetable extracts supports safe and effective detoxification.

Highlighted Features of **NutriClear® *Plus*** Powder

Organic Pea Protein — Each serving of **NutriClear® *Plus*** powder yields 17g of pea protein, made from organic North American yellow peas that are grown, and also processed into a powder, within the United States. Having such a high quality protein powder helps fuel the body with the cleanest protein source available, which is key to an effective detoxification program.

NitroGreens® — The addition of **NitroGreens®** supplies **NutriClear® *Plus*** with a rich source of phytonutrients, including isoflavones, polyphenols, natural carotenoids, betalains, glucosinolates and isothiocyanates, as well as naturally occurring enzymes, vitamins and trace minerals. Sourced from 100% organic whole food extracts and concentrates, many of the ingredients are grown from heirloom seeds. Enzymatically active, with a high ORAC value and chlorophyll content, **NitroGreens®** supports healthy immune function, nitric oxide production and detoxification of heavy metals.



BIOTICS
RESEARCH
CORPORATION

Utilizing "The Best of Science and Nature"
to Create Superior Nutritional Supplements



(800) 373-1373

Metabolic Management
P.O. Box 715 • Grant Park, IL 60940
www.metabolicmanagement.com

NutriClear® Plus

Prebiotic Fiber — Gastrointestinal health plays an important role in detoxification. Digestion, assimilation of nutrients and elimination of metabolic waste all need to run optimally in order to expel the toxins. The added fiber, in the form of prebiotics, inulin and oligosaccharides, helps support digestion and improve the gut microbiota. Prebiotics are non-digestible and chemically stable structures that significantly enhance the growth and functionality of gut microflora. The gut microbiota enhances digestion processing, helps in digestion of complex substances, synthesizes beneficial bioactive compounds, enhances bioavailability of minerals, impedes growth of pathogenic microbes and prevents various diseases.⁽¹⁾ In addition to favoring growth of beneficial bacteria, intake of prebiotics increases short-chain fatty acid (SCFA) production, which is associated with improved satiety, weight loss and reduced systemic inflammation.⁽²⁾

MCT—Dietary medium chain triglycerides (MCT), not only promote lipid catabolism, energy expenditure and weight loss, they can also ameliorate metabolic health via their capacity to improve the intestinal ecosystem.⁽³⁾

All of the Active Constituents from the Following Supplements are Included in the NutriClear® Plus Metabolic Cleanse Program

Bromelain Plus CLA™ — Proper digestion is the key to overall health. Without it, our foods can't be broken down into the components necessary to fuel the body's metabolic processes, including our detoxification pathways. **Bromelain Plus CLA™** contains bromelain, a proteolytic enzyme used for centuries to support digestive

function and healthy inflammatory processes.⁽⁴⁾ Bromelain is widely administered for its well-recognized properties, such as its support of healthy inflammatory, thrombotic, fibrinolytic, and immunomodulatory effects, in addition to being supportive of wound healing and circulatory function.⁽⁵⁾ It supports phase II detoxification by breaking protein down into the amino acids necessary to help conjugate the toxins, and prepare them for elimination.

Bromelain Plus CLA™ also combines papain, inositol, cellulase, lipase, amylase, ficin and cysteine in a strategic formula that provides comprehensive digestive support of proteins, fats, carbohydrates, cellulose, and can even aid in the digestion of living worms such as Roundworm (*Ascaris lumbricoide*).

Pancrelipase is also included in this digestive support formula. Pancrelipase formulations have been shown to reduce fecal fat, indicating an improvement in the fat digestive process with its use.^(6,7)

Livotrit Plus®—The liver serves as the major organ controlling metabolic homeostasis, and functions as the body's primary pathway for detoxification.⁽⁸⁾ **Livotrit Plus®** combines a unique, well-researched mixture of Ayurvedic botanical extracts formulated to support normal, healthy liver function, metabolism and detoxification systems. Phytochemically-rich, with a wide array of polyphenolic compounds and phenolic acids, **Livotrit Plus®** provides potent antioxidants that quench free radicals, including the superoxide radical. This formula includes standardized extracts of *Silybum marianum* (milk thistle), *Picrorhiza kurroa*, *Andrographis paniculata*, *Eclipta alba*, *Berberis aristata*, *Tinospora cordifolia*, and *Boerhaavia diffusa*.

15-Day Metabolic Cleanse Program

BioProtect™ — The detoxification pathways can often yield free radicals, reactive and unstable molecules that can damage the body. The liver, intestines and kidneys modify these potentially damaging compounds by using oxidative enzymes classified as cytochrome P450 (P450) oxidases. P450 enzymes are a superfamily of hemoproteins, which catalyze the phase I biotransformation of various substrates, oxidizing these compounds into forms which are easily eliminated by the body. However, these enzymes use molecular oxygen inefficiently, yielding superoxide.⁽⁹⁾

BioProtect™ provides a wide array of antioxidants and synergists, ranging from vitamins and minerals to phytochemicals and enzymes, formulated to support the detoxification process by supporting the cytochrome P450 enzymatic pathway.

MCS-2™ —To maximize the liver's detoxification capability, the body needs an elaborate array of vitamins and minerals that act as substrates and cofactors in the detoxification pathways. Deficiencies in these nutrients can result in the suboptimal functioning of the pathways, and subsequent inability to eliminate harmful substances, including foreign chemicals and drugs.

MCS-2™ is designed to offer consistent support to the liver detoxification pathways by providing Vitamin A, Vitamin C, vitamin E, Thiamin, Riboflavin, Niacin, Vitamin B6, Pantothenic Acid, Folate, Vitamin B12, Choline, Zinc, Molybdenum and trace minerals. Other ingredients that offer support to the metabolic process include L-Methionine, N-Acetyl-L-Cysteine (NAC), Alpha Lipoic Acid, Taurine, L-Glutathione, Milk Thistle, Lycium, Cleavers, Dandelion, Burdock, and Red Clover.

Beta-TCP™ — In addition to phase I and phase II detoxification pathways, the liver removes toxins by secreting bile full of cholesterol and other fat-soluble toxins. Each day the liver manufactures approximately 2 liters of bile. Bile contains bile acids, which are critical for digestion and absorption of fats and fat-soluble vitamins. In addition, many waste products are eliminated by the body through the biliary system. Bile also serves as a protective mechanism, functioning to maintain the intestinal barrier against invading microorganisms.^(10,11)

Beta-TCP™ provides the nutritional support for healthy bile formation and viscosity necessary for eliminating fat-soluble toxins.

Taurine increases the polarity of bile acids and, therefore, their amphipathic (emulsification) properties. In one study, dietary taurine was demonstrated to enhance the degradation of cholesterol and subsequent excretion via bile acids.^(12,13) In addition to taurine, **Beta-TCP™** also includes vitamin C that supports the pathways needed for oil production that allows cholesterol to convert to conjugated bile acid. Organic beet concentrate contains a number of nutrients that supports the overall digestive process and liver and gallbladder function.

The **NutriClear® Plus Metabolic Cleanse Program** is a self-guided program and includes the nutrients necessary for a successful detoxification. In some cases, however, healthcare professionals might recommend additional nutritional support. Two adjunct products that work well with the **NutriClear® Plus Metabolic Cleanse Program** are **A.D.P.®** and **Optimal EFAs® Caps**.



The **NutriClear® Plus 15-Day Metabolic Cleanse Program** is packaged for convenience and contains:

- 30 pouches of **NutriClear® Plus** powder
- 30 **NutriClear® Plus** supplement packets, which include 5 capsules supplying the active constituents from: **Bromelain Plus CLA™**, **Beta-TCP™**, **Livotrit Plus®**, **BioProtect™**, and **MCS-2™**
- 1 Shaker Cup
- 1 Guidebook

To place your order for **NutriClear® Plus** or for additional information please contact us below.

References:

1. Appl Biochem Biotechnol. 2017 Sep 25. doi: 10.1007/s12010-017-2605-2.
2. "Prebiotics in the management of components of the metabolic syndrome." Maturitas. 2017 Oct;104:11-18. doi: 10.1016/j.maturitas.2017.07.005. Epub 2017 Jul 14.
3. Nutrients. 2016 May 12;8(5). pii: E281. doi: 10.3390/nu8050281.
4. Gyebercug FP. Influence of nutrients and other dietary materials on cytochrome P-450 enzymes. Am J Clin Nutr. 1995;61(suppl):651S-8S. As a metabolic factory, the liver maintains blood sugar levels, manufactures tri-glycerides, cholesterol.
5. J Pak Med Assoc. 2017 Jan;67(1):121-125.
6. Biomed Rep. 2016 Sep;5(3):283-288. Epub 2016 Jul 18.
7. Teed PJ. Mechanism of chemically-induced cell injury and cellular protection mechanism. An introduction to Biochemical Toxicology, 2nd edition. Hodgson E and Levi PE, eds. Norwalk, CT. Appleton and Lang 1994: 267-295.
8. Ogata Y, Nishi M, Nakayama H, Ohnishi Y, Tashiro S. Role of bile in intestinal barrier function and its inhibitory effect on bacterial translocation in obstructive jaundice in rats. J Surg Res. 2003 Nov;115(1):18-23.
9. Walls CL, Jechorek RP, Erlandsen SL Inhibitory effect of bile on bacterial invasion of enterocytes: possible mechanism for increased translocation associated with obstructive jaundice. Crit Care Med. 1995 Feb;23(2):301-7.
10. Delhave M, Meuris S, Gohimont AC, Buedts K, Cremer M. Comparative evaluation of a high lipase pancreatic enzyme preparation and a standard pancreatic supplement for treating exocrine pancreatic insufficiency in chronic pancreatitis. Euro J Gastroenterol Hepatol. 1996 July;8(7):699-703.
11. Valerio D, Whyte EH, Schlamm HT, Ruggiero JA, Blackburn GL. Clinical effectiveness of a pancreatic enzyme supplement. JPEN J Parenter Enteral Nutr. 1981 Mar-Apr;5(2):110-4.
12. Yokogoshi H, Oda H. Dietary taurine enhances cholesterol degradation and reduces serum and liver cholesterol concentrations in rats fed a high-cholesterol diet. Amino Acids. 2002;23(4):433-9. In another study, taurine was demonstrated to both increase serum HDL, and significantly decrease total cholesterol.
13. Yokogoshi H, Nanami K, Hida Y, Miyachi Oda H. Dietary taurine enhances cholesterol degradation and reduces serum and liver cholesterol concentrations in rats fed a high-cholesterol diet. J Nutr. 1999 Sep;129(9):1705-12. In a recent study (Lipids Health Dis. 2017 Mar 16;16(1):56. doi: 10.1186/s12944-017-0444-3.), taurine promotes cholesterol conversion to bile acids by upregulating CYP7A1 gene expression, promoting intracellular cholesterol metabolism.



BIOTICS
RESEARCH
CORPORATION

Utilizing "The Best of Science and Nature"
to Create Superior Nutritional Supplements



(800) 373-1373

Metabolic Management
P.O. Box 715 • Grant Park, IL 60940
www.metabolicmanagement.com