

pHyto Cleanse

Ingredient Details, Studies, and How it Works

1. What is a biofilm?

80% of infections (including viral, bacterial, parasitic, and fungal) are biofilm related.*

In nature, bacteria live in social groups called “biofilms.” If a biofilm grows big enough, we can see it with our naked eye. Examples of biofilms you might have seen include plaque that grows on our teeth, pink slime that forms on shower grout, and the slippery coating found on pond rocks. Biofilms are made up of bacteria and organic polymers called EPS (Extracellular Polymeric Substances that include polysaccharides and proteins). A biofilm is a filmy layer that develops on almost every surface that is in contact with water and microorganisms.

Biofilms often form inside the human body because about 60% of the human body is water. Biofilms can cause health problems in your ears (ear infections, etc.), mouth (plaque, etc.), throat (STREP, etc.), mid-section (UTI infections, kidney/renal issues, IBS, etc.), and systemically (Crohn’s Disease, Lyme Disease, etc.). The ingredients in pHyto Cleanse are proven to breakdown and digest bacteria-laden biofilms. See the ingredient studies below.*

2. How do the vegan time-released capsules work and do I have to change my diet?

There is no need to change your diet. Each pHyto Cleanse capsule is formulated with specific enzymes that are proven to breakdown and digest biofilms throughout the entire body. Additional Essanté Organics products that can help the body breakdown and digest harmful biofilm components are organic Clove, Cinnamon, and Eucalyptus Essential Oils, Sparkle Toothpaste, and Sanitizer. Common items like organic garlic and ginger can support the breakdown of some biofilms, while organic cranberry can support the digestion of UTI-associated biofilms. Yet, the *specific* enzymes in pHyto Cleanse, a powerhouse supplement by Essanté Organics, is *guaranteed* to be the most effective way to support the breakdown and digestion of all of your body’s biofilms. See our 30 day product guarantee and online product information (including this pdf). pHyto Cleanse digests biofilms and, in turn, **supports a flatter tummy, relief from bloating, ear/nose/throat health, lung and circulation health, liver and kidney/renal health, intestinal and bladder health, urinary tract and colon health, systemic issues, regularity, cleansing, detox, immunity, oxygenation, probiotic growth, and more.** *

3. Biofilm forms in many areas of the body and can cause serious health problems according to the studies below:

CROHN'S DISEASE (Biofilm and Crohn's)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3536164/>

EAR INFECTIONS (Biofilms in chronic suppurative otitis media)

<https://www.ncbi.nlm.nih.gov/pubmed/24288500>

FUNGUS (Fungus and biofilm)

<https://www.ncbi.nlm.nih.gov/pubmed/28988727>

GI TRACT (Bacteria and biofilm in the GI tract)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4395855/>

IBS (Gut biofilm forming bacteria in inflammatory bowel disease)

<https://www.ncbi.nlm.nih.gov/pubmed/28942174>

INFECTIONS (80% of infections are biofilm related)

<https://www.ncbi.nlm.nih.gov/pubmed/23025745> <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4395855/>

LYME DISEASE (Biofilm removal lyme disease improvement)

<https://www.ncbi.nlm.nih.gov/pubmed/26903956>

NASAL PASSAGE (Biofilm in nasal passage)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3836217/> <https://www.ncbi.nlm.nih.gov/pubmed/28894821>

STREP THROAT (Strep reoccurrence due to biofilm)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC193794/>

CANDIDA (B-1,3-glucanase disrupts biofilm formation and increases antifungal susceptibility of candida albicans DAY185) <https://www.ncbi.nlm.nih.gov/pubmed/29104052>

4. More studies that prove the enzymatic removal of biofilms

“The most effective approach to remove biofilm in the body is to destabilize the biofilm’s EPS (the proteins, polysaccharides, lipids, extracellular DNA, and other substances inside the biofilm). Some enzymes such as protease, DNase I, alginate lyase, amylase, and cellulase have been reported to support biofilm removal according to the American Society for Microbiology/Antimicrobial Agents and Chemotherapy. in short, enzymes enhance biofilm removal efficiency.” (American Society for Microbiology/Antimicrobial Agents and Chemotherapy/ Glycoside Hydrolases Degrade Polymicrobial Bacterial Biofilms in Wounds).

SPECIFIC ENZYMES AND THE ENZYMATIC CLEANSING, DETOX, AND REMOVAL OF BIOFILMS

Enzymatic removal of biofilms

<https://pubmed.ncbi.nlm.nih.gov/21921679/>

Enzymes enhance biofilm removal efficiency of cleaners

<https://aac.asm.org/content/60/6/3647>

Cellulase enzyme in inhibiting biofilm formation from organisms commonly found on implants

<https://www.ncbi.nlm.nih.gov/pubmed/14618691>

CYSTIC FIBROSIS

Thermostable xylanase enzyme inhibits and disassembles pseudomonas aeruginosa biofilms

<https://www.ncbi.nlm.nih.gov/pubmed/29616824>

LYMPH NODES, LUNGS, EYES, THROAT, INTESTINES, AND MORE

Chitinases enzymes are negative regulators of francisella novicida biofilms

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3963990/>

CANDIDA

B-1,3-glucanase enzyme disrupts biofilm formation and increases anti fungal susceptibility of candida albicans DAY185

<https://www.ncbi.nlm.nih.gov/pubmed/29104052>

BIOFILMS AND THEIR ROLL ON DISEASES

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10391977/>

#:~:text=Among%20various%20biofilm%2Dassociated%20infections,) %2C%20chronic%20wounds%20(P.

5. How does the ingredient of Complex Oxides of Magnesium work?

The Reactive Oxygen Species (or ROS) in pHyto Cleanse consists of Complex Oxides of Magnesium which support the body's bio-terrain (the combination of all the systems in the body that nourish, maintain, and protect us, especially the microbiome in the gut). This ingredient has undergone an extensive proprietary vegan process resulting in super-oxides; a unique blend of Reactive Oxygen Species (ROS) that support the immune system by increasing the oxidative process in the digestive tract, providing an oxygenated environment for your natural gut microbiome. The Complex Oxides of Magnesium act as a cleanser drawing water into the digestive tract; this supports organ cleansing including the gut. In combination with our unique enzyme blend, pHyto Cleanse supports the breakdown and digestion of biofilms and the release of ROS. Our Oxides of Magnesium are delayed-release meaning they have been proprietarily formulated to hold and release oxygen over an extended period of time.

6. pHyto Cleanse® contains ingredients that are proven to support the body's ability to combat bacteria, viruses, fungi, yeast, infections, wounds, poor circulation, macular issues, swelling, poor cell replication, kidney/renal function, and more per these studies:

Study #1

BACTERIA, VIRUSES, YEAST, FUNGI, AND PROTOZOA

"Inactivation of bacteria, viruses, fungi, yeast and protozoa: Ozone therapy (ozone is a special kind of oxygen molecule) disrupts the integrity of the bacterial cell envelope through oxidation of the phospholipids and lipoproteins. In fungi, O₃ (ozone) inhibits cell growth at certain stages. With viruses, the O₃ (oxygen molecule ozone) damages the viral capsid and upsets the reproductive cycle by disrupting the virus-to-cell contact with per-oxidation. The weak enzyme coatings on cells which make them vulnerable to invasion by viruses make them susceptible to oxidation and elimination from the body, which then replaces them with healthy cells." (<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3312702/>)

Study #2**WOUNDS, CIRCULATION, GERIATRIC ISSUES, MACULAR DEGENERATION, VIRAL DISEASES, RHUMATOID ARTHRITIS, CANCER, SARS, AIDS**

“Diseases treated are infected wounds, circulatory disorders, geriatric conditions, macular degeneration, viral diseases, rheumatism/arthritis, cancer, SARS and AIDS.” (<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3312702/>)

Study #3**IMMUNITY TO FIGHT AGAINST INFECTIONS AND DISEASES**

“The immune system creates super-oxides and hydrogen oxides for respiratory bursts in order to kill bacteria. Another use of oxidants produced by the immune system is signaling the body to induce an inflammatory response which brings in an influx of neutrophils (white blood cells which fight infection and other diseases).” (American Journal of Respiratory and Critical Medicine Vol 166, 2002 pg. 56)

Study #4**AUTOIMMUNE DISEASES AND VIRUSES INCLUDING HIV AND AIDS**

“Ozone (a special kind of oxygen molecule) increases the production of interferon’s that have the ability to interfere in the replication of viruses in host cells. Gamma interferon levels can be raised from 400% to 900% with their antiviral activity. They prevent viral replication and activate CD4 + T lymphocytes (helper) , immunomodulatory functions and natural killer cells (cytotoxic). They also induce the cytotoxicity of CD8 + T lymphocytes, which promote the proliferation and B lymphocytes activation, which is why these cells are considered a fundamental pillar in the mediated-cell immune response. The CD4 + T lymphocytes activation trigger an immune-reactions cascade [12,13]. CD8 + T lymphocytes, macrophages, neutrophils, eosinophils, NK cells and the activation of antibody-dependent cellular cytotoxicity (ADCC) constitute immune effectors mechanisms to destroy virus-infected cells [14]. Previous studies have shown different types of ozone treatments against HIV infection [15]. Considering this background, the aim of this study is to demonstrate the immunological response in HIV-AIDS patients treated with ozone by major autohemotherapy during 2 years.” (https://www.researchgate.net/publication/333875271_The_immune_response_behavior_in_HIV-AIDS_patients_treated_with_Ozone_therapy_for_two_years)

Study #5**CLEANSING, DETOX, AND REGULARITY (LAXATIVE EFFECT)**

“A common use for high doses of oral magnesium salts is to produce a laxative effect to treat constipation. In the intestinal lumen the poorly absorbable magnesium ions (and other ions such as sulphate) exert an osmotic effect and cause water to be retained in the intestinal lumen. This increases the fluidity of the intraluminal contents and results in a laxative action. Although the laxative action of magnesium is thought to be due to a local effect in the intestinal tract, it is also possible that released hormones such as cholecystinin or activation of constitutive nitric oxide synthase might contribute to this pharmacological effect. Under normal circumstances the pharmacological administration of high doses of oral magnesium salts is safe and some salts--such as magnesium hydroxide--also have an antacid effect to neutralize stomach acid.” <https://www.ncbi.nlm.nih.gov/pubmed/8878010>

Study #6**TIME-RELEASED EFFECT**

As mentioned earlier, our Oxides of Magnesium have been formulated to hold and release oxygen over an extended amount of time. “The rate of oxygen release is influenced by a number of factors such as temperature, pH, and presence of a buffer or catalyst. Alternatively, the use of buffers provide adjustment of pH and therefore oxygen generation. Moreover, the purity and solubility of oxides significantly affect the kinetics of oxygen release.” <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3708668/>

7. How does the ingredient Citric Acid work?

Citric acid provides the proper pH for the release of ROS (Reactive Oxygen Species) in pHyto Cleanse (see ROS details in #1 in this document). Citric Acid occurs in cellular metabolism, and ours is obtained specifically from organic lemon and lime juices.

8. How does the mineral ingredient Potassium Chloride work and how does it support cardiovascular health, the skeleton, the nerves, the muscles, blood pressure, and the kidneys (renal function)?

CARDIAC FUNCTION

Potassium Chloride is a mineral that works to replenish quantities lost in the cleansing process. Potassium, atomic number 19, in combination with other minerals in the body, forms alkaline salts that are important in body processes and play an essential role in maintenance of the alkaline-acid-base and water balance in the body. All body cells, especially muscle tissue, require a high content of potassium. A proper balance between sodium, calcium, and potassium in the blood plasma is necessary for proper cardiac function. <https://medical-dictionary.thefreedictionary.com/potassium+chloride>

“Potassium is a mineral found in many foods and is needed for several functions of your body, especially the beating of your heart. Potassium Chloride is used to prevent and/or treat low blood levels of potassium (hypokalemia). Potassium levels can be low as a result of a disease, or from taking certain medicines, or after a prolonged illness with diarrhea or vomiting.” <https://www.uofmhealth.org/health-library/d00345a1>

KIDNEY/RENAL, NERVE, HEART, MUSCULOSKELETAL SKELETAL, BLOOD PRESSURE, AND ENERGY LEVEL FUNCTION

“Potassium maintains intracellular tonicity, is required for nerve conduction, cardiac, skeletal and smooth muscle contraction, production of energy, the synthesis of nucleic acids, maintenance of blood pressure and normal renal (kidney) function. This agent has potential antihypertensive effects...” <https://pubchem.ncbi.nlm.nih.gov/compound/Potassium-chloride>

NERVE, MUSCLE, KIDNEY/RENAL FUNCTION

“Potassium is a major mineral (electrolyte) that is important for the function of every cell in the body. For example, it is important in nerve conduction, muscle contraction, and kidney function. “ https://www.medicinenet.com/potassium_chloride/article.htm

Consult your doctor prior to taking this or any supplement.

*** The Food and Drug Administration has not evaluated these statements. This product is not intended to diagnose, treat, cure, or prevent any disease.**