STABILIZED OXYGEN

Oxygen is the key to all life processes.

Why create an oxygen supplement?

Oxygen plays a powerful and primary role in our overall health and well-being. All metabolic processes in the body are regulated by oxygen, and 80% of all our metabolic energy production is created by oxygen! The human body is largely composed of oxygen, so it's no wonder that scientists are now discovering how low levels of oxygen can disrupt the body's ability to function correctly.

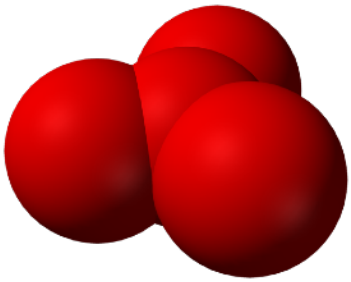
Sufficient oxygen helps the body in its ability to rebuild itself and maintain a strong and healthy immune system. Even our abilities to think, feel and act require oxygen-related energy production. Oxygen also plays a vital role in proper metabolic functions, blood circulation, digestion, the assimilation of nutrients, and the elimination of cellular and metabolic wastes.

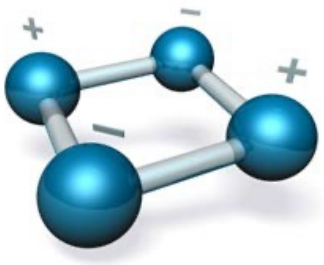
Don't we get enough oxygen just from breathing?

The simple answer is "no". Pollution is everywhere. As toxins contaminate the air they replace oxygen. The earth's air used to contain almost 50% oxygen. Today, atmospheric oxygen levels average about 20% and plunge as low as 10% in some industrial cities like Tokyo and Beijing. Additional factors further reduce bioavailable oxygen in the blood stream, including: stress, viruses and infections, medications, drugs and alcohol, lack of exercise, highly processed foods and polluted water.

Creating ATP energy for muscles

Original research conducted on ASO® in the 1990s resulted in the theorized O4 molecule pictured to the left. Since that time, ongoing research conducted at the University of Rome and published in the Journal of Physics has resulted a different proposed molecular structure as pictured to the right. Both models share the prevailing notion that the bond between all four oxygen atoms is very strong and thus accounts for the stability of the molecule.





We all know how important vitamins, minerals and water are to our health and vitality. Although we can actually exist without food for about 40 days, and water for about seven days...without oxygen, life ceases to exist in only minutes.

What exactly is “stabilized oxygen”?

The term "Stabilized Oxygen" refers to a liquid solution intended for dietary supplement use and containing oxygen atoms as a key ingredient. Generally, the definition implies the presence of a molecule containing diatomic oxygen (O_2), which is typically bonded to other atoms forming a negatively charged group of atoms called an ion. Most of the stabilized oxygen solutions that were sold in the 1980s and 90s contained chlorine dioxide (or “chlorite”) molecules where two oxygen atoms were bonded to a single chlorine molecule (ClO_2^-). This solution is extremely alkaline (pH 12 or more) and is very caustic. ASO®, on the other hand, is a cluster of four oxygen atoms in a very stable grouping called polyatomic tetraoxygen.

I’ve never heard of “polyatomic tetraoxygen”. Are you sure this isn’t something made up just to convince us that ASO® is “different” or “unique”?

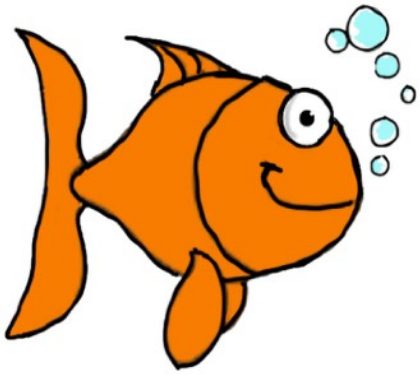
No. The existence of polyatomic oxygen is fact of physical chemistry. Isotopes of oxygen differ with regard to the number of neutrons within the atoms (i.e. the composition of subatomic particles in an atom).

Allotropes of oxygen differ with regard to the structure of the oxygen atoms (i.e. how the atoms are arranged). The naturally occurring stable isotopes of oxygen are ^{16}O, ^{17}O, and ^{18}O, with ^{16}O being the most abundant (99.762%). The allotropes of oxygen include: Dioxygen (O_2), the form of oxygen that we breathe; Trioxygen (O_3), commonly known as ozone; and Tetraoxygen (O_4).

The existence of the metastable O_4 molecule was confirmed in 2006 and research indicates that this allotrope has the potential to be a much more powerful oxidizer than either O_2 or O_3.

You have to be a fish!

For more than 25 years, we keep seeing "experts" in the medical community claim that you have to be a fish to get oxygen out of water? In fact, over the same period, not a single medical professional or qualified scientist has conducted any independent research to actually demonstrate that oxygen supplements provide no benefits for metabolic health.



Of course, we are not suggesting that anyone can replace breathing by taking an oxygen supplement like our ASO®. That would be ridiculous. However, published research, in publications like the Journal of Medical Research and Anesthesia, dating as far back as 1960, demonstrate clearly that oxygen is absorbed through the stomach and intestinal tract and passes into the blood stream.

How does ASO® get into the bloodstream?

Independent research has established that the polyatomic oxygen molecules in ASO® are safely and easily absorbed into the blood stream through capillaries in the mouth (ultra-lingual and sublingual) as well as through the stomach lining. Here is what some of the actual research indicates:

Journal of Medical Research (2001): “Gastroenteric oxygen intake (via the stomach) is more intensive than breathing and supplies oxygen to muscle cells and can be involved in regenerative processes. Additionally, oxygen-enriched water, supplied to the stomach, affects the oxygenation of portal blood. Breathing increases the oxygen content in the liver by 8%, while oxygen absorbed through the stomach can increase it by 43%!"

Alcoholism: Clinical and Experimental Research (May 2010): "Our results show that intragastrically applied oxygenated water with more than 45 mg O2/l delivers O2 into the abdominal cavity and the portal vein.”

Is ASO® stable?

Stability is the tendency of a material to resist change or decomposition (i.e. due to chemical reaction or exposure to light or heat). ASO® is stable, but can lose its efficacy under certain conditions. The oxygen molecules in ASO® will become unstable when they come into contact with metal (like a stainless steel spoon) or when combined with organic matter (food). Therefore, use a plastic spoon when stirring and always take ASO® no less than 30 minutes before or one hour after eating.

What are the ingredients in ASO®?

There are only three ingredients in ASO®: Purified RO water, purified sea salt and polyatomic tetraoxygen molecules.

Is ASO® a natural product?

Yes. ASO® does not contain any artificial ingredients, coloring ingredients, nor chemical preservatives.

Why we created ASO®.

"ASO® was created more than 25 years ago and has been the subject of more than two dozen independent studies that prove its efficacy and safety.

"Oxigenesis has earned global recognition for its pioneering oxygen-enhanced products in the consumer health and beauty industries. The proprietary technology behind our flagship product, ASO®, is unique to the market and is the first of its kind to undergo published clinical testing.

"Over the last three decades, ASO® has remained the finest and most researched oxygen dietary supplement in the world. With more than a million bottles sold internationally, ASO® ´continues to be the safest and most concentrated activated stabilized oxygen dietary supplement."

Stephen Krauss, Ph.D.
Oxigenesis' founder

How is ASO® made?

Oxigenesis' manufacturing process involves a proprietary system, developed almost 30 years ago, which is continuously improved as technology advancements permit. The process creates stable polyatomic tetraoxygen molecules in a pH balanced aqueous solution.

What factors affect the amount of oxygen in ASO®?

Dissolved oxygen (DO) is highly dependent on the temperature. The lower the temperature, the higher the amount of DO in water. The higher the water temperature the lower the amount of dissolved oxygen. As altitude increases, the atmospheric (barometric) pressure decreases. Thus, the amount of oxygen diffused into water decreases.

Typical tap water contains about 10 PPM of DO. A running stream can contain as much as 19 PPM of DO. Bottled water contains about 4-10 PPM of DO. The most concentrated ASO® formula contains as much as 350,000 PPM pf bioavailable oxygen. More importantly, the amount of oxygen in ASO® does not change based on temperature or atmospheric pressure.

Is ASO® GMO Free?

No GMO have been used in any phase of the manufacturing process. ASO® Activated Oxygen is a dietary supplement manufactured in the United States of America. To the best of our knowledge, ASO® is not derived from genetically modified starting raw materials, or additives that are derived from genetically modified organisms, and do not contain detectable levels of genetically modified materials, (known as PCR negative). It is our understanding that the EU labeling requirements are based on the presence of detectable levels of transgenic material. Based on this information, this product will not, on its own, require the label ing of these foodstuffs and food ingredients as indicated in (EC) No. 1829/2003 and (EC) No. 1830/2003, (which came into law on the 7th of November, 2003) on the authorization, labeling, and traceability of genetically modified organisms in food and feed. ASO® has not been treated with ionizing radiations (gamma rays).

Oxygen is nature's perfect disinfectant

Independent antimicrobial tests using ASO® have yielded amazing results. Microorganisms killed by ASO® include Aspergillus flavus , Aspergillus niger, Candida albicans, Candida tropicalis, Escherichia coli 0157, Listeria monocytogenes , Microbacterium bovis, Pseudomonas aeruginosa, Salmonella choleraesius, Staphyloccus aureus and Trichophyton interdigitale..

The oxygen in ASO® disrupts the integrity of the bacterial cell envelope through the oxidation of the phospholipids and lipoproteins.

In fungi, oxygen disorganizes membrane permeability so that the organism's nucleic acids and cations leak out and the cell dies.

Oxygen short-circuits the processes by which pathogens create energy; oxygen disturbs the structure of the bacterial cell wall; oxygen also interferes with the production of essential proteins.

ASO® oxygen inhibits cell growth at certain stages. With viruses, the ASO® oxygen damages the viral capsid and disrupts the reproductive cycle by disrupting the virus-to-cell contact with peroxidation.

Does ASO® contain hydrogen peroxide?

No. Independent analysis verifies there are no molecules of hydrogen peroxide (H_2O_2) in ASO®. Note that 35% hydrogen peroxide is not intended for internal consumption. Hydrogen peroxide is labeled "Food Grade" for approved use in cleaning food-handling equipment. Ingesting hydrogen peroxide can cause serious side effects and hydrogen peroxide is listed as a hazardous material.

Does ASO® contain chlorine dioxide?

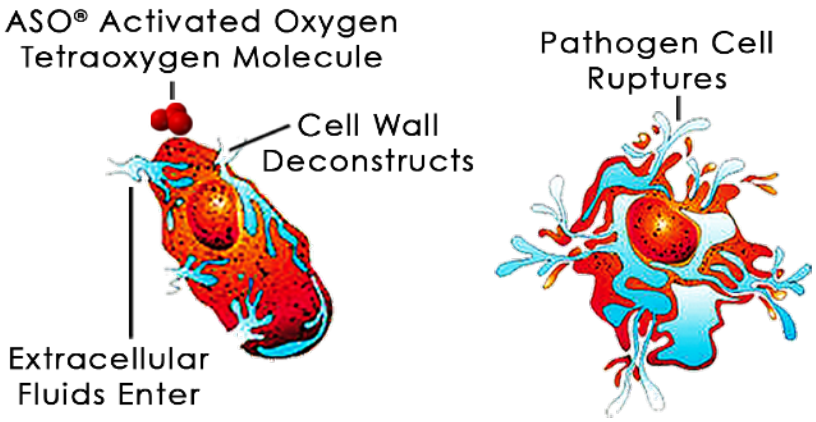
No. Independent analysis verifies that there are no molecules of chlorine dioxide or "chlorite" (ClO_2) in ASO®.

Is ASO® certified drug free?

Yes. ASO® has undergone thorough analysis and is certified drug free. It carries the BSCG (Banned Substances Control Group) Certification. BSCG is the gold standard of certifications and applies the Olympic standard of drug testing to quality control of dietary supplements and natural products.

Is ASO® a natural disinfectant?

Yes. Oxygen is Nature's most perfect disinfectant. It's universal in its ability to kill anaerobic pathogens. In some cases it destroys them on contact; other times it may take a few minutes. The end is still the same for a disease organisms: death!



OXYSALINE™:

Oxysaline® by Oxigenesis helps us keep our nose working properly! When colds or allergic reactions set in, the sinus membranes swell and irritation, itching and increased stuffiness (mucus build-up) occur.

Now, for the first time, relief is possible in a natural, drug-free, unique and proprietary blend of saline, polyatomic tetraoxygen molecules and plant-derived lyophyllic nano-colloidal zinc.

OXYSALINE™ oxygenated saline nasal spray with zinc has no side effects nor negative interactions with other drugs, so it can be used alone in or conjunction with other medications to aid in relief and healing. When used regularly,

OXYSALINE™ improves breathing, helps the mucous membranes filter out harmful irritants, improves the sense of smell and reduces bad breath.

The combination of our ASO® solution and our proprietary colloidal plant-derived zinc improves immune system health while killing harmful pathogens in the nasal passages.

Everything happens in the human body on the subatomic level — where electrons are exchanged from one atom or groups of atoms with another atom or groups of atoms.

When oxygen's involved, this electrical exchange short circuits microorganisms and destroys them. In fact. This is the same process our white blood cells use to kill invading bacteria and viruses.

Is ASO® easy to use?

Yes. It can be taken orally in full strength or it can be added to purified water or distilled water. We do not recommend that it be added to mineral water as some minerals might cause the ASO® molecules to destabilize.

How much ASO® should I take?

The minimum amount we recommend is 15 drops (approximately 1 ml) sublingually. If adding to water, we recommend 15 drops per ounce of water.

Can you take too much ASO® at a time?

No. ASO® is completely non-toxic. Many competitive athletes take one to two ounces at a time.

Is oxygen beneficial to help clear the nasal passages?

Yes. The nose is one of the most complex and elegant organs in our body. Just as our eyes give us information by seeing and our ears help us out by hearing, the nose lets us figure out what's happening by smelling. The nose performs vital functions, like breathing, preventing infections, determining our sense of smell and taste, and even affecting the resonance of our voice.

The nose is the gateway to breathing, and thus "life". In a 24-hour period, 20,000 liters of air will pass through our nose. That's the equivalent to 5,283 gallons!

The nose humidifies the air we breathe and helps prevent dehydration. Our noses act like a personal air treatment system for the lungs and are cleverly designed to protect the delicate

OXYSALINE™:

OXYSALINE™ is the only saline nasal spray in the world with the power of oxygen and nano-colloidal zinc. It is is gentle enough for everyone, including infants and is safe for frequent daily use. OXYSALINE® is alcohol free, drug free, preservative free and provides natural non-medicated relief for stuffy noses, with no side effects.

tissues of our lungs and our nostrils are lined with tens of thousands of hairs called cilia that trap dust, pollution, allergens, smoke, bacteria, viruses, spores, small bugs and countless other things.

It may not feel like it, but every day our nose produces a whopping 34 ounces, or one liter, of mucus. This mucous flushes contaminant down our throat where they are digested, Pink mucus indicates a healthy nasal membrane, red signifies infection, and muted pink and gray can appear during nasal allergy season.

Research supports the use of saline solutions to restore moisture to dry nasal passages and sinuses and to lessen the inflammation of mucous membranes. Findings show that if saline irrigation is used regularly, just like the saline solution in our proprietary OXYSALINE™, it can help to thin mucus, decrease postnasal drip, and cleanse the nasal passages of bacteria.

Is there any evidence that the oxygen in ASO® causes free radial damage?

No. Most free radicals are natural by-products of the body's normal metabolic activity in producing the energy needed to exist and sustain itself. Breathing is the major contributor of free radicals, yet without breathing—the body dies. Almost all free radicals produced during the energy-production cycle are reduced to water. Some are used to fight off invading bacteria and viruses. Others—the result of contaminates like smoke, pollution, alcohol, ozone, radiation and highly processed foods —are very damaging to the body.

Natural nutrient antioxidants (vitamins, amino acids and minerals) occurring in the foods we eat are designed to control the production of these deleterious free radicals. It is important to remember that research clearly shows that diatomic oxygen (O_2) is essential for a healthy body and that an abundant supply of oxygen helps reduce free radical activity, not increase it!

ASO® and birds.

During an eight-week study, two identical poultry houses were used each containing 3,500 broilers. All birds came from the same hatchery. The researchers' stated: "This has been a very successful preliminary study. The positive results of increased growth, weights, less mortality, overall improved health and vitality of the chickens, improved flavor of the meat in taste tests and improved acceptability of the end products were all observed in this study."

"In another parallel ASO® study was conducted with exotic birds that also indicated an increased health benefit across the board and increased survivability of hatching eggs. The study was conducted on various kinds of exotic birds from rare breed chickens to parrots and canaries. By adding ASO® into the drinking water the birds appeared more healthy. More importantly it was also the very first time ever that all the eggs had hatched without any losses". This would seem to indicate a better, stronger and more viable egg."

Is pH an important factor in selecting an oxygen supplement?

Yes "pH" means the "potential of Hydrogen" and is the measurement of the hydrogen ion concentration in a solution. The scale runs from "0" to "14". The lower the pH value, the higher the ion concentration and vice versa. An "alkaline" solution will have a pH that is between 7 and 14. An "acidic" solution will have a pH between 0 and 7. Water, the universal solvent, has a neutral pH of 7. ASO® is slightly alkaline and has a pH of about 7.3. Stabilized Oxygen solutions with a pH below 5.0 and above 9.0 can potentially damage the skin and tissues in the mouth and esophagus. ASO® is the only pH balanced oxygen supplement available today..

Can infants and children take ASO®?

Yes. We recommend that they take half the adult dose. ASO® can also be given to infants, pregnant women and nursing mothers without any concern of toxicity.

Can pets and animals take ASO®?

Yes. Dosages should be determined by weight. We suggest the rule of thumb of one drop of ASO® for every five pounds of weight. ASO® has been used for many years by professional trainers and large animal vets in the horse breeding and racing industry. ASO® has also undergone clinical studies for livestock like dairy cattle and chickens demonstrating improved health, less mortality and faster weight gain.

Does ASO® relieve sunburn and other burn pain?

Yes. The oxygen in ASO® has a soothing and calming effect on the skin. It can help reduce redness and swelling and bring almost instant relief to sunburn or any other first-degree burn.

Does the oxygen in ASO® promote skin health and healing?

Oxygen and alcohol consumption:

When the body metabolizes ethanol, one of the byproducts of this process is acetaldehyde (CH3CHO). This is a toxic molecule that can result in a faster heartbeat, a headache or an upset stomach. The brain is most affected by acetaldehyde poisoning. It causes problems with brain activity and can impair memory.

Numerous studies, primarily conducted in South Korea, clearly demonstrate that increased levels of injected stabilized oxygen can more rapidly reduce the symptoms of alcohol consumption. The findings:

"Ethanol oxidation by the microsomal ethanol oxidizing system requires oxygen for alcohol metabolism, and a higher oxygen uptake increases the rate of ethanol oxidation. In conclusion, elevated dissolved oxygen concentrations in alcoholic drinks accelerate the metabolism and elimination of alcohol. Thus, enhanced dissolved oxygen concentrations in alcohol may have a role to play in reducing alcohol-related side effects and accidents.

Influence of Dissolved Oxygen Concentration on the Pharmacokinetics of Alcohol in Humans. Alcoholism: Clinical and Experimental Research Vol. 34, No. 5 May 2010

Yes. Oxygen is a fundamental ingredient in helping to repair damaged skin. It is essential in creating elastin and collagen, the protein fibers that make up the supporting structure of the dermis. Oxygen is also a topical biocidal and can help reduce inflammation and redness that may be caused by harmful bacteria.

Is ASO® safe?

Yes. Oxigenesis conducted a battery of independent laboratory tests to determine the potential toxicity of our formula. Based on the findings of studies completed by SGS USA Laboratories, the world's leading testing, inspection and certification company, it was determined that:

Acute Inhalation Toxicity: When tested as specified, ASO® Stabilized Oxygen Solution at 40% Strength Concentration Solution, was not acutely toxic following a 4-hour inhalation exposure

Acute Oral Toxicity: When tested as specified, ASO® Stabilized Oxygen at Full Strength Concentrated Solution, was determined to have an acute oral LD50 greater than 5.0 g/kg.

Acute Dermal irritation: When tested as specified, ASO® Stabilized Oxygen Solution did not induce dermal irritation following a 4-hour dermal exposure.

Eye Irritation Test: When tested as specified, ASO® Stabilized Oxygen was not an eye irritant.

Does the oxygen in ASO® reduce the toxic effects of alcohol consumption?

Yes. Numerous clinical studies and ongoing research clearly indicates that oxygen plays a strategic role in metabolizing alcohol in the bloodstream. Based on prior research, Oxigenesis conducted its own clinical study at the School of Medicine at trinity College in Dublin, Ireland.

The study used a double blinded crossover design to compare the effects of ASO® on blood alcohol kinetics. It was hypothesized that alcohol clearance kinetics would be enhanced via increased oxygen absorption into the hepatic portal vein.

ASO® Activated Stabilized Oxygen?

Oxygen plays a powerful and primary role in our overall health and wellbeing. All metabolic processes in the body are regulated by oxygen, and 80% of all our metabolic energy production is created by oxygen!

The human body is largely composed of oxygen, so it's no surprise that scientists are now discovering how low levels of oxygen can disrupt the body's ability to function correctly.

Sufficient oxygen helps the body in its ability to rebuild itself and maintain a strong and healthy immune system. Even our abilities to think, feel and act require oxygen-related energy production.

ASO® is backed by 26 years of independent research. It is a safe, certified drug-free, easy to use and stable dietary supplement*.

The overall finding of this study indicated that ingestion of ASO® resulted in a small but significant reduction in alcohol clearance rates.

Do you have to dilute ASO® to use it?

No. ASO® may be taken at full strength or it may be diluted in water. It is effective when taken either way.

Can you mix ASO® with juices or other drinks?

No. The oxygen molecules in ASO® can become unstable when ASO® is added to any liquid other than water.

Can you take ASO® with other nutritionals or medications?

ASO® should not be taken with other dietary supplements or prescription medications because ingredients in these formulations may destabilize the oxygen molecules in ASO®. However, ASO® may be taken in addition to these formulations if taken 30 minutes before or an hour after them.

Can you take ASO® with food?

No. Food can be oxidized and so may destabilize ASO®. ASO® should be taken separately and only with water.

Is there any evidence that the oxygen in ASO® can improve athletic performance?

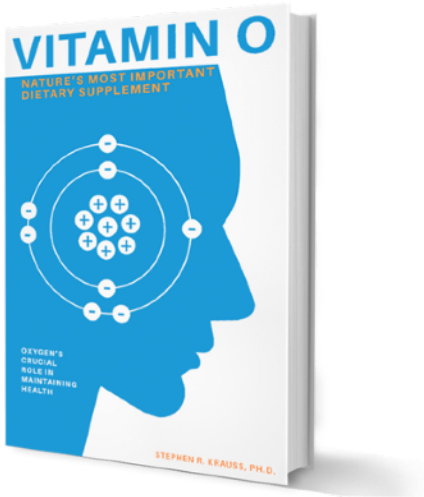
Yes. Oxigenesis has been the subject of a number of clinical studies to determine if the oxygen in ASO® can promote faster recovery and improved performance in athletes. Each study builds upon the previous one to establish a pattern of accelerated performance, shortened recovery time, increased endurance and greater stamina.

"The main finding from the current battery of tests is that ingestion of OS (ASO® Oxygen Supplement) significantly improved post-exercise recovery from high-intensity aerobic

Vitamin O

Of all the chemical elements, oxygen is the most vital to the human body. Oxygen is absolutely crucial to the life processes of all living creatures. It is at the basis of all energy production and is the key to combatting disease. To create every chemical bond, every new cell or every thought pattern and memory requires a constant supply of the most important element on our planet: oxygen. We can go without food for 40 days, water for seven days, but only a few minutes without life-giving oxygen.

Written by Oxigenesis' founder and Chairman, Dr. Stephen R. Krauss, Ph.D., VITAMIN O is your comprehensive guide to the life-changing benefits of natural healing oxygen. Practical, easy to follow and updated with the latest scientific research, this expanded second edition contains an in-depth look at the importance of oxygen to a healthy mind and body.



exercise via enhanced lactate clearance...drinking OS did result in a statistically significant improvement in post-exercise, which is an important finding...Enhancing post-exercise recovery from training is of significant benefit to competitive athletes as it is likely to increase the rate of training adaptation in the long term. Additionally, many athletic events over short and middle distances, even up to 5,000 meters, require multiple races over the course of a competition. The ability to clear lactate more efficiently and hence recover faster in the early rounds of competition is of clear benefit to an athlete. Post-exerciser recover is also of significant importance in team-based sports (i.e. soccer, basketball, football)...Any intervention which may enhance clearance of lactate during a player's recovery would therefore likely improve overall performance in these sports."
Randomized Controlled Trial J Int Soc Sports Nutr. 2017 Mar 29;14:9. doi: 10.1186/s12970-017-0166-y. eCollection 2017. Ingestion of oxygenated water enhances lactate clearance kinetics in trained runners. Dr. Neil Fleming, Ph.D. , Jeremiah Vaughan, Matthew Feeback. PMID: 28360825 PMCID: PMC5371271 DOI: 10.1186/s12970-017-0166-y

"The analysis...indicated that the levels of lactate in the blood of the subjects during the 40 minute test, when compared to the 400 meter test, were different when compared to sampling done while exercising one week prior to the repetition of the test using the oxygen solution (ASO®)...there was a definite reduction in lactate levels in the blood in both the 40 minutes as well as the 400 meter running tests. There was also overall VO2max improvement in the subjects for the 40 minute test. From the results it is concluded that the ingestion of the activated oxygen solution (ASO®) considerably affects the tolerance levels of lactate acid in the blood and improves VO2max."
The Concentration of Lactate in the Blood and the Improvement of the Maximum Reception of Oxygen after the Ingestion of ASO® Solution. Nicos Yiannaki Pericleous, M.Sc., ACSM

"In short, in both measurable parameters and subjective observations, the test subjects in the group treated with the oxygen supplement (ASO®) experienced the following to a greater degree than the control group: • Greater stamina and

The importance of oxygen to a healthy body:

"All chronic pain, suffering, and diseases are caused by a lack of oxygen at the cell level."
Dr. Arthur C. Guyton, MD
The Textbook on Medical Physiology

"In all serious disease states we find a concomitant low oxygen state ... Low oxygen in the body tissues is a sure indicator for disease .. . Hypoxia, or lack of oxygen in the tissues, is the fundamental cause for all degenerative disease. Oxygen is the source of life to all cells."
Dr. Stephen Levine, Ph.D.
Molecular Biologist and Geneticist

"Oxygen is a nutrient, and life can be over if deprived of this nutrient for more than four minutes! Oxygen is needed by immune cells to attack bacteria, viruses and parasites. It burns our food to make energy. Our liver uses oxygen to detoxify poisons, drugs and waste products. Fiber-making cells need oxygen to repair damaged and worn-out tissues. Everything on earth would either rust or burn without oxygen."
Dr. Neil McKinney, N.D.
Canadian Journal of Health and Nutrition

endurance • Reduced muscle fatigue • More energy • Less "out of breath" • Greater feeling of strength • Felt that the product helped them perform better."
The Department of Human Performance, Naval Health Research Center, San Diego, CA, the Division of Foods and Nutrition, University of Utah, Salt Lake City, UT, and the Marine Corps Mountain Warfare Training Center

"...a definite improvement was noticed in between the sprints of the trials with placebo and the controlled ASO® stabilized liquid oxygen. This would indicate the fact that athletes who consumed ASO® stabilized liquid oxygen were able to reproduce similar and sustained effort during both sprints as compared to those that consumed a placebo, especially in consecutive heats."
Preliminary Study Into The Use of ASO®/O2-Power™ Stabilized Liquid Oxygen As an Ergogenic Aid for Sprinters In a Competition/ Heat Scenario, Dr. Hj Danish Zaheer Hj Zaheeruddin MD., PhD. David Hennessy Bsc (Hons), Sports Medicine & Research Centre, Department of Youth & Sports, Brunei Darussalam

Has Oxigenesis created specific stabilized oxygen formulas for athletes?

Yes. Oxigenesis has created three powerhouse workout and performance supplements combining our proprietary plant-sourced minerals and ASO® Activated Stabilized Oxygen proven to provide critical recovery for athletes.

ASO® SPORT™ RECOVER: TARGET MUSCLE SORENESS

On your toughest training days, ASO Sport™ RECOVER is your best defense against sore, strained muscles. This liquid sport supplement combines the proven lactate-blasting benefits of bioavailable oxygen with vital trace minerals — zinc, chromium, and magnesium — to help restore electrolyte balance, reduce muscle fatigue, and facilitate cellular repair.*

ASO® SPORT™ REFUEL: FIGHT FATIGUE

A powerhouse pre-workout supplement combining plant-sourced minerals and Activated Stabilized Oxygen—tested and

FDA Recognition of ASO®:

ASO® falls under and meets all of the U.S.A. D.S.H.E.A. (Dietary and Supplement Health Education Act) regulations enacted in 1997 for dietary supplements.

The Director of The United States Food and Drug Administration, Department of Health and Human Services, Office of Nutritional products, Labeling and Dietary Supplements, Center for Food Safety and Applied Nutrition, pursuant to the provision of Rule 44 of the Federal Rules of Civil Procedure, and Title 42, United States Code, Section 3505, and 21 CFR 5.22, has issued Certificate of Free Sale to Oxigenesis for "ASO®".

Said Certificate of Free Sale is available upon written request.

proven to provide critical recovery for athletes. This O_2-powered endurance booster is formulated with energizing ionic minerals to increase VO_2 Max. Taken before training, REFUEL delivers a concentrated surge of bioavailable oxygen to fuel muscle metabolism and keep lactic acid at bay. Plant-based iron, chromium, and copper optimize oxygen delivery to the muscles so you can count on maximum aerobic efficiency while you work out.

ASO® SPORT™ REFLEX: IMPROVE MOBILITY

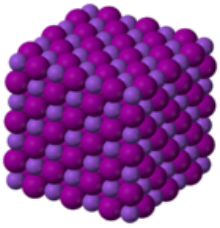
Optimized for joint support, this pre-workout formula contains concentrated stabilized oxygen and fortifying plant-derived minerals for improved mobility and faster recovery. REFLEX is enhanced with a blend of ionic magnesium, zinc, and GRAS-designated MSM to promote collagen production and maintain healthy inflammation response.

"On behalf of the World Team, I want to personally thank you for your assistance in one of the greatest sporting endeavors ever undertaken. As you probably already know, of the 15 members that participated...11 are going to Sydney! That is an incredible rate of success...you (ASO®) are an important part of that successful team."
Dr. Gary Hall, Sr., M.D.
U.S. Olympic Sprint Swimming Team

OXIGENESIS Oxygen Test Strips:

Oxigenesis' OTS® (Oxygen Test Strips) are designed to detect "free oxygen" molecules in water. Free oxygen refers to a variety of oxygen molecules that may be dissolved in water. These include singlet oxygen (O1), diatomic oxygen (O2), Ozone (O3) and Oxigenesis' proprietary polyatomic oxygen molecule called "tetraoxygen" (O4).

Oxigenesis' OTS® are made from porous cellulose filter paper that



has been impregnated with refined cornstarch and potassium iodide (KI). Potassium iodide behaves as a simple ionic salt, K+I-. Since the iodide ion is a mild reducing agent, I-, is easily oxidized to I2 by all oxidizing oxygen molecules. The iodide is "oxidized" (it loses electrons) and becomes iodine.

How do I test for the oxygen content in ASO®?

There are several methods that may be used to test for the bioavailable oxygen content in ASO®. To be clear, we make a distinction between "dissolved oxygen" and "bioavailable oxygen". While the terms may be used interchangeably, there is a difference when discussing ASO®. "Dissolved oxygen" refers to diatomic oxygen molecules (O_2) while "bioavailable oxygen" refers to different species or allotropes of oxygen including O_1, O_2, O_3 and O_4.

While some dissolved oxygen molecules (O_2) are present in ASO® these tend to be oxygen molecules primarily dissolved due to atmospheric pressure and oxygen in the atmosphere and the levels are between 5 ppm to 15 ppm. ("PPM" refers to parts per million. Another notation is mg/L, and these two terms are interchangeable when discussing the levels of bioavailable oxygen in ASO®.

The first testing method is a simple colormetric test (referred to as the The Schoenbein Color Scale,), that uses a paper strip impregnated with potassium iodide. The strip turns color when in the presence of any oxidizing agent like oxygen. This method is quick and easy to perform, but it involves subjective interpretation based on the resulting color of the strips. While it is reliable, it is not quantitatively accurate.

Potassium Iodide Color Scale ranging from
0 PPM to 20 PPM

The second test is also colormetric and is called Titrimetric Method/Iodometry also known as the Winkler method. This testing method is the standard test for dissolved oxygen. In the analysis, manganese ions react with dissolved oxygen in an alkaline solution to form a manganese oxide "hydroxide" flocculent. The resulting color is then compared to a standardized color spectrum to determine the amount of

Independent Bioavailable Oxygen Analysis:

"It was determined that 100% concentrated Activated Stabilized Oxygen™ (AO2C™) did contain atoms and molecules of oxygen. The presence of a significant amount of O4 represents a free oxygen concentration in AO2C™ greater than 23% total oxygen by volume in the solution."
James D. Aker, Ph.D., M.S., P.A., P.P.A.

"The completed EDO test yielded a 920 p.p.m. (mg/L) of dissolved O2. Since the solution you provided was previously diluted 100:1, the actual DO mathematical extrapolation would be 92,000 (920 x 100 = 92,000) p.p.m. (mg/L)."
Dr. J. Michael Sadowski, Ph.D.

"USANA has analyzed lot #18 of your diluted stabilized oxygen solution and we found the following dissolved oxygen content using a modified azide Winkler test procedure: Dissolved oxygen 7,250 p.p.m.
John H. McDonald, Ph.D."
Senior Scientist

dissolved oxygen in a solution. The range is between 0 PPM and 40 PPM.

The third method is to use an oxidation-reduction potential meter (ORP) to measure the electrical potential of ASO®. While this method does not yield a specific quantifiable concentration measurement of bioavailable oxygen, it does provide a credible and reliable reading of the oxidative power of the oxygen molecules in ASO®.

Note that the use of dissolved oxygen (DO) meter devices will not provide meaningful data as to the amount of bioavailable oxygen present in ASO®. This is due to the fact, as mentioned previously, that the electron bonding of polyatomic tetraoxygen is sufficiently strong so as to prevent the measuring probes in a DO meter from causing the O_4 molecules to break apart into diatomic oxygen molecules which can then be quantified.

The fourth method involves the use of a mass spectrometer that has software allowing it to test for various allotropes of oxygen, specifically related to Eigen functions.

Oxigenesis has used all of the above testing methods. Based on independent testing, the following cross referenced chart, comparing ORP to bioavailable oxygen.

Oxidation Reduction Potential (ORP) in millivolts (mV)	Bioavailable Oxygen in mg/L (or P.P.M.)	Bioavailable Oxygen as a Percentage
1200	40,000	40%
1100	39,000	39%
975	38,000	38%
950	37,000	37%
925	36,000	36%
900	35,000	35%
875	34,000	34%
850	33,000	33%
825	32,000	32%
800	31,000	31%
775	30,000	30%
750	29,000	29%
725	28,000	28%
700	27,000	27%
675	26,000	26%
650	25,000	25%

Disclaimer:

ASO® is a dietary supplement and is manufactured and sold under the guidelines established by the U.S. F.D.A.

ASO® and the accompanying literature is not intended to treat, cure, prevent or diagnose any disease or medical condition. Always consult with a medical practitioner before taking any dietary supplement, especially if nursing, taking prescription medications or if you are under a doctor's medical care.

Manufactured in the United States of America.

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Are there any know contraindications in taking ASO®?

No contraindications are cited in any literature nor have any side effects been recorded since the release of ASO® in 1996.

Can ASO® be used for water preservation?

Yes. The higher the level of bioavailable oxygen in stored water the longer the water will remain fresh or potable. For long-term storage of fresh drinking water in polycarbonate drums, add 1/4 ounce of ASO® for each gallon of stored water. Provided that the drums are kept sealed, cool and away from sun exposure, purity can be maintained for an indefinite period. Once a year each drum should be recharged by adding additional ASO®.

How is ASO® absorbed?

Research conducted on ASO® Activated Oxygen by Suntory International of Japan indicates that there is a direct and long-lasting correlation between the consumption of ASO® and an increased partial pressure of oxygen in arterial blood. A Duke University study, completed in March of 1996, indicated, for the first time, the actual mechanisms by which oxygen is transported in the blood directly to the tissues and how oxygen is released and acquired by the blood through both the lungs and the plasma.

Oxygen is lipid soluble and therefore is definitely absorbed into the body through the stomach lining by any one of three processes: active transport, diffusion or solvent drag.The combination of the two mentioned studies implies that ASO®, when taken orally, is absorbed into the bloodstream where it is transported directly to the tissues.