



worldwide

RESEARCH

Medical Practitioners & Researchers



O2[®] stabilized oxygen is undoubtedly a new powerful tool in the modern world of medicine. The more we get to know about it, the more we can treat without side effects. O2[®] is a tool, a key to a noble dream for a better world, better life quality and life itself. O2[®] works as a strong antiseptic on the wound, killing anaerobic and fungal microorganisms. O2[®] increases the healing process. O2[®] was effective in dilutions and in the oral treatment of Stomatitis Aphthosa in the mouth and gums. O2[®] was effective as a topical treatment against Oral Candidiasis and tongue's fungal plaques. O2[®] was effective on degenerative lip dermatitis and Angulus Infectiosus in mouth angles. O2[®] was effective on eczematous areas as a moisturizing and skin repair agent.

Dr. Marios L. Christofinis, M.D., Ph.D.

I believe O2[®], because of its inherent "energy factor" potential may just be the "Rosetta Stone" that unblocks the pathogenetic mechanisms of disease in general and provides the knowledge for proper disease prevention management. O2[®] Activated Oxygen is not simply an important nutrient supplement

but a dynamic energy molecule. O2[®] has an extremely high ORP (Oxidation Reduction Potential) of 950 mV. That means O2[®] possesses energy that can be transferred to the surrounding environment, potentiating the bioenergetic processes and correcting or reversing underlying cellular dysfunctions. In other words, O2[®] works like a bright new cellular battery.

**Menicos A. Spartalis, M.D.,
Vascular Surgeon**

In the beginning I used O2[®] activated oxygen rather cautiously for cleaning the face for local uses thus assessing the action of this product as a bactericide. Later I started recommending it for the detoxification of the organism thus testing its activity for neutralizing free radicals. I gave it to my patients with tired and rather lifeless skin, with black circles under the eyes or individuals suffering from eczema and dermatitis. The results were fantastic and this made me bolder and able to

recommend it to athletes, smokers, persons with feebleness, lack of energy, chronic bronchitis, asthma and to people with frequent viral infections due to a weakness in their immune system as well as to patients with bed-sores, etc. In all these cases the results have been excellent.

**Dr. Margarita Chilindri, M.D.,
Pathology and Dermatology**



From the results it is concluded that the ingestion of the activated oxygen solution (O2[®]/H2O BOOSTTM) considerably affects the tolerance levels of lactate acid in the blood and improves VO2max.

**Nicos Yiannaki
Pericleous, M.Sc., ACSM**

The potential role of O2[®] stabilized liquid oxygen as an ergogenic aid in sports performance enhancement is still to be fully understood. Available scientific data and information on this subject presents a whole range of possibilities for further studies. In this study it was established that there was not a far-reaching effect of O2[®]

stabilized liquid oxygen on the same subjects in terms of performance enhancement during trial test sprints. However, a definite improvement was noticed in between the sprints of the trials with placebo and the controlled O2[®] stabilized liquid oxygen. This would indicate the fact that athletes who consumed O2[®] stabilized liquid oxygen were able to reproduce similar and sustained effort during both sprints as compared to those that consumed the placebo.

Dr. Hj Danish ZaheerHjZaheeruddin MD., PhD. and David Hennessy Bsc (Hons), Sports Medicine & Research Centre, Department of Youth & Sports, Brunei Darussalam

From my clinical experience this product can be used in all aspects of the oral medicine and surgery, for example consultant specializing in nutritional product research, product development and product formulations.) In short, in both measurable parameters and subjective observations, the test subjects in the group treated with the oxygen supplement (O2[®]) experienced the following to a greater degree than the control group: Greater stamina and endurance, Reduced muscle fatigue, More energy, Less "out of breath", Greater feeling of strength, Felt that the product helped them perform better.

"Effect of stabilized oxygen consumed with water on blood and urine markers of oxidative stress and blood oxygen saturation during extended military mountaineering training at moderate altitude." Eldon W. Askew, Ph.D. Department Chair, School of Nutrition, University of Utah, Donald E. Roberts, Ph.D., James E. Reading, M.A., Jeffrey M. Pfeiffer, M.S., Lt. Lance Orr, MC, USNR.

Blood gas analyses conducted on the participants' arterial blood samples showed definite increases in arterial blood oxygen (PaO₂), as well as elevated discharges of carbon dioxide waste matter. Older subjects appeared to respond better to the test product's therapeutic actions, than was reported from younger recipients. The inclusion of an iron supplement with the test product indicates a helpful role in how the body utilizes "Vitamin O". However, non-iron subjects also receiving test product posted higher-than-expected hemoglobin values, which suggests that the apparent blood-building action of "Vitamin O" can happen also without iron-dependency. A general stabilization of arterial blood oxygen levels following three months of steady supplementation with the test product became evident, but could change if daily intake were temporarily discontinued.

Dr. John Heinerman, Ph.D

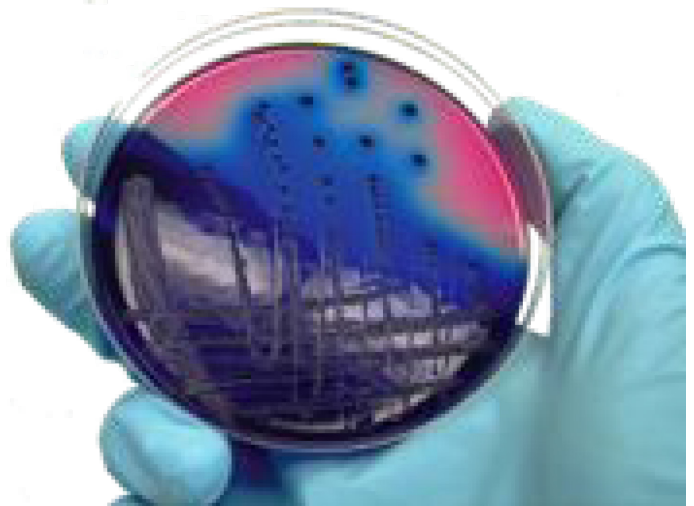
I can find no substance with levels high enough to indicate toxicity to anyone consuming your solution. The sodium level at only 9.24 p.p.m. is well below the recommended daily reference values determined by the U.S. As an irrigant for the cleaning and prophylaxis of the oral cavity For the treatment of periodontitis and gingivitis Post surgical procedures and post extracting treatment For biological treatment and elimination of amalgam filling and heavy metal drainage For therapy in a

systemic disease, and many other applications In conclusion, I would like to say that H2O-BOO2ST, because of its bio-friendly capabilities, it has the potential to be a powerful source for clinical or paramedical practice. **Dr. Stylianos Panayiotis, M.D.**

This test represented a variety of individuals with varying physiological differences including age, sex, weight, medical health conditions, physical conditioning, etc. The test was conclusive on three major points:

1. Free oxygen (160) is present in O2[®] as it was absorbed into the blood stream both sublingually and/ or internally after it was tagged with Protac C/Iodine26 in every administered case.
2. The combination of component ingredients in O2[®] has a positive affect, in varying degrees, on capillary dilation.
3. The combination of component ingredients in O2[®] has a significant affect on the reduction of systolic and diastolic blood pressure. It is the researcher's opinion that O2[®] results

in greater metabolic efficiency which may correlate to significant energy reductions thus prolonging and enhancing the quality of an individual's life. Further, O2[®], used in conjunction with mineral supplements, may be an excellent therapeutic tool for treating physiological disorders including chronic fatigue syndrome, immune deficiency disorders and several chronic pain related disorders. **James D. Aker, Ph.D., M.S., P.A., P.P.A., President, Third State Analytical, Inc. Dr. Aker has a Ph.D. in Biochemistry, a Master's Degree in Biochemistry (concentration: Organic Chemistry) and a Master's Degree in Quantum Physics, Research. He is a Board Certified P.A. (Physician's Assistant) and P.P.A. (Psychiatric Physician's Assistant). For three years he served as a Nutritional Research Fellow with the World Health Organization (W.H.O.) in India (soil and nutritional analysis) and has spent the past 12 years as a biochemical, nutritional and medical research Government. Toxic metals (lead,**



mercury and arsenic) are virtually undetectable as are nitrate levels and other trace minerals. Your solution, in its current formulation, is totally safe to the human body.

John H. McDonald, Ph.D., Senior Scientist, USANA, Inc.

When tested as specified, the submitted test substance, Stabilized Oxygen from BIO2 at Full Strength Concentrated Solution, was determined to have an acute oral LD50 greater than 5.0 g/kg. **Charles C. Tong, Ph.D., D.A.B.T., Study Director and Director of Biological Services, SGS U.S. Testing Company Inc.**

When tested as specified, Stabilized Oxygen from BIO2 at 20% Strength Concentrated Solution was not acutely toxic to the test animals following dermal application of the test substance at 2.0 g/kg. **Charles C. Tong, Ph.D., D.A.B.T., Study Director and Director of Biological Services, SGS U.S. Testing Company Inc.**

When tested as specified, Stabilized Oxygen Solution from BIO2 at 20% Strength Concentrated Solution, did not induce dermal irritation in the six test animals following a 4-hour dermal exposure. **Charles C. Tong, Ph.D., D.A.B.T., Study Director and Director of Biological Services, SGS U.S. Testing Company Inc.**

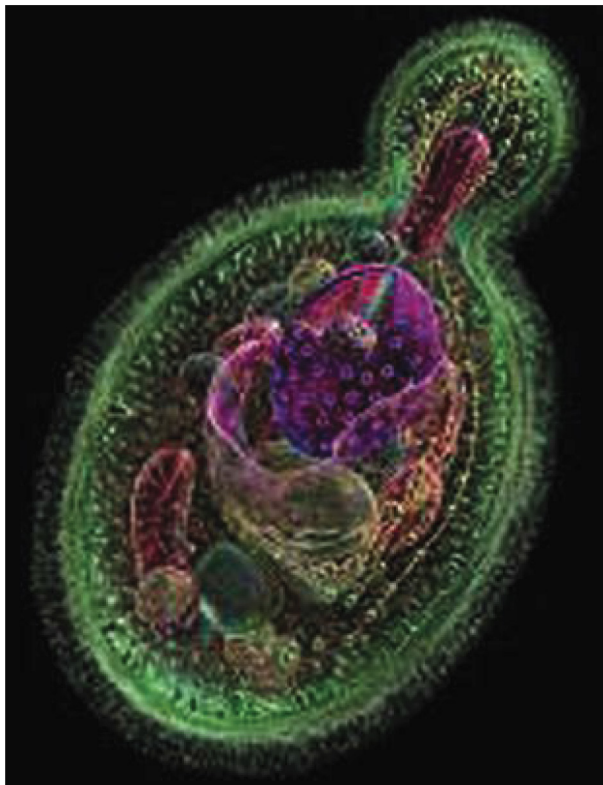
When tested as specified, the Stabilized Oxygen Solution from BIO2, at 40% Strength, was not acutely toxic to the test animals following a 4-hour inhalation exposure at a nominal concentration of 23.9 mg/L (actual concentration was 14.6 mg/L). LC50 was estimated at greater than 23.9 mg/L (actual concentration was 14.6 mg/L). **Charles C. Tong, Ph.D., D.A.B.T., Study Director and Director of Biological Services, SGS U.S. Testing Company Inc.**

When tested as specified, the submitted test substance Stabilized Oxygen Solution from BIO2 at 20% Strength Concentrated Solution, was not considered to be a skin sensitizing agent. There was no significant differences in skin irritations observed in the test animals and in the control animals on challenge. **Charles C. Tong, Ph.D., D.A.B.T., Study Director and Director of Biological Services, SGS U.S. Testing Company Inc.**

When tested as specified, the submitted test substance, Stabilized Oxygen from BIO2 at 20% Strength Concentrated Solution, was not an eye irritant. **Charles C. Tong, Ph.D., D.A.B.T., Study Director and Director of Biological Services, SGS U.S. Testing Company Inc.**

All four test organisms were rendered harmless after subjecting them to the O2® solution. All four organisms were tested after submersing them for 24 hours. Three of the four organisms (Escherichia coli 0157:H7, Salmonella choleraesuis and Staphylococcus aureus) were effectively killed in a diluted solution of O2® at 20% of its original strength. Pseudomonas aeruginosa was killed after subjecting it to a diluted solution of O2® at 40% of its original strength. **Keith Goins, Ph.D., Manager, Microbiology, SGS U.S. Testing Company Inc.**

"The diluted test product effectively reduced, to the detectable limits of the test, all the bacteria and Candida by the Time 0 sample interval. No bacterial organisms or Candida were recovered from the product throughout the remaining test period. The Aspergillus cultures effectively reduced, to the detectable limits of the test, at the 24 hour sample interval. (The first Disinfectant Efficacy Test study investigated whether a 5% strength solution of Stabilized Oxygen had any antimicrobial disinfectant affect of Staphylococcus aureus ATCC 6538, Salmonella choleraesuis ATCC 10708, and Pseudomonas aeruginosa ATCC 15442. A follow-up Modified Antimicrobial Preservative Effectiveness Study further investigated whether a 5% strength solution of Stabilized Oxygen had any disinfecting properties on six different organisms: Staphylococcus aureus ATCC 6538 [Bacteria, Gram (+) cocci], Pseudomonas aeruginosa ATCC 9027 [Bacteria, Gram (-) bacillus], Escherichia coli ATCC 8739 [Bacteria, Gram (-) bacillus], Candida albicans ATCC 10231 [Yeast], Aspergillusniger ATCC 16404 [Mold] and Aspergillusflavus ATCC 9643

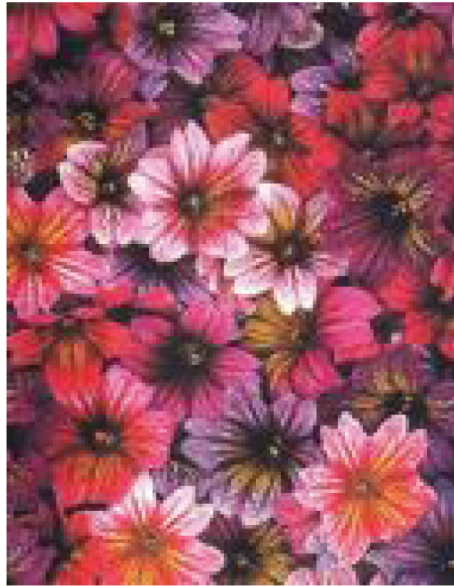


[Mold]. In ALL INSTANCES, the Stabilized Oxygen solution clearly demonstrated highly effective disinfecting antimicrobial properties. **Nelson Laboratories, Salt Lake City, UT.**

We find that Stabilized Oxygen is very effective when used as a sanitizing disinfectant on Cat's Claw. The results of this study show that on average the 1% SL-12-1 product showed a reduction of 85.7% of total molds on the powder and a 82.9% reduction of the chips. The SL-8 product showed a 78.6% reduction in mold cfu/gm and a 90.2% reduction on the chips...Based on these findings, Stabilized Oxygen shows great promise as a sanitizing agent for herbs, spices and other agricultural products where a significant reduction in mold colony forming units is required to enhance/maintain quality, reduce spoilage and extend shelf life. **Dr. Joseph Montecalvo, Jr., Ph.D., Central Coast Consulting and Professor of Food**

Sciences, California Polytechnic State University, San Luis Obispo, CA

O2[®] reduced the incidence of *Alternaria zinniae* on zinnia seeds. Control seeds (0%) had 85% (17 of 20) while seeds soaked for 48 hours in a 100% solution of O2[®] had 20% (4 of 20) with *A. zinniae*. Conidia or hyphae contaminating the surface of the zinnia seeds were probably killed by the O2[®], but hyphae within the seed coat probably escaped. Germination rates tended to be increased by the O2[®], although our results did not show an increased germination rate with soaking for 48 hours in a 100% solution of O2[®]. Control seeds soaked for 48 hours had a 65% (13 of 20) germination while seeds soaking for 24 hours in O2[®] had a 90% (18 of 20) germination. Under conditions where seed lots are heavily infested with *Alternaria zinniae*, seed disinfection with O2[®] prior to seeding can reduce the incidence of damping off and blight of zinnia.



Additionally, seed germination rates would be increased, resulting in many more healthy plants. With the additional characteristics of having no toxicity to humans or animals and being biodegradable, O2[®] Activated oxygen shows promise being used as a disinfectant of fruits and vegetables and other food products in addition to being used to produce clean seeds and increase seed germination rates. **Dr. Michael Yoshimura, Ph. D., School of Biological Sciences, Phytopathology Department, California Polytechnic State University, San Luis Obispo, CA U.S.A.**

It was noted that the wholesale buyers of the chickens were very impressed with the flavor of the O2[®] treated chickens in this study. The researchers believe, is that the oxygen from O2[®] helps build stronger immune systems and therefore bacteria and parasites are controlled to a higher degree. The treated chickens are more active and thereby develop more as well as stronger muscles resulting in less fat. The improved quality of the meat and the lack of Antibiotics used as a result of O2[®] treatment might allow the producer to market the chickens as "Organic" thereby reaching higher sales prices and more demand. Overall, this has been a very successful preliminary study and points towards areas that need to be examined further. 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. Another parallel O2[®] study was conducted with exotic birds that also indicates an

increased health benefit across the board and increased survivability of hatching eggs. **Drs. Antonio & Andreas Rotou, DVM**

Aphanomyces is a fungus that has been attacking sugar beet (*Beta vulgaris*) fields in the Red River Valley of Minnesota and North Dakota. The organism is soil borne and may affect the sugar beets from the early seedling stage until the late summer more mature stage. This study shows the effect of stabilized oxygen on *Aphanomyces* in petri dish cultures and soil. From the above tables one can see that O2[®] at all concentrations had an adverse effect on *Aphanomyces* growing in petri dish cultures. It can also be seen that at the highest concentration most of the *Aphanomyces* were killed. **Charles**

Habstritt, Ph.D., Professor of Agronomy & Soils University of Minnesota

We received your sample of O2[®] to determine the presence of hydrogen peroxide. We used our decomposition procedure for hydrogen peroxide, which involves contacting the solution with platinum metal foil. In this procedure, the platinum would catalyze the decomposition of peroxide resulting in bubbles of oxygen forming. Using your sample of O2[®], we observed no

bubble formation even after heating the solution to 60°C for 5 minutes. Since this is typically a qualitative test, we estimate the detection level to be about 0.1%. So, from this result, we can say that the solution contains <0.1% hydrogen peroxide (or <1000 ppm hydrogen peroxide).

Michael T. Volosin President, AnalysisNow!

This study is the first to report that an oxygen enhanced sports drink also improves athletic performance. A possible explanation may be that the oxygen-enhanced water allows for rapid diffusion of oxygen for transport into the blood stream. Since these factors were not directly measured, follow up studies should be conducted to collaborate these findings and to evaluate possible mechanisms to explain the athletic benefits of oxygen enhanced water. **Dr. John J. Duncan, Ph.D. Texan Woman's University, Denton, Texas Center for Research on Women's Health**

Our Customers Speak Out



"I wanted to thank you for introducing me to Activated Stabilized Oxygen. I have been taking it for over six years and I would not be without it. I have trouble with bad gums and I keep that problem in tact with the oxygen and I take it when I have a cold, sore throat and to stave off all sorts of health problems. I think it is a wonder drug. I also use it for cuts, scratches and burns, even sunburn. For sore muscles, aches and leg cramps I use your LTSO®MSM and I love it also... Keep up the good work." **Beverly Shannon • Sarasota, FL**

"I have had severely aching knees for the past few years...I am an electrical lineman with our local power company. My wife got our whole family started on using the products (O2®, LTSO® MSM, Ionic Calcium, Ionic Selenium, PhytO2™ and DetO2™ AM). I noticed after about a month that had gone by that I had absolutely no pain in my knees! Being the skeptic that I am, I couldn't believe it was from using these new products. I quit taking the products and after four days the aching in my knees returned. Naturally I resumed taking the products and approximately a week later all the pain was gone from my knees... Needless to say, I am no longer a skeptic and share my experience with everyone who will listen." **Terry Eikenbrock, Grand Forks, ND**

"While I was working at a laboratory that does environmental testing of water, I had the misfortune to get an acid burn on my forearm. Someone had accidentally spilled some on the counter and had not cleaned it up... Within minutes, my forearm had a huge red rash and itched terribly. I immediately washed my arm off with soapy water. Nothing happened. Then I applied some of the O2® directly to the burn. Within minutes there was relief. Talk about amazing results. This was almost unbelievable... By the time I went home, the rash was almost gone. In the morning there was no sign of the burn. There is a bottle in the lab constantly now." **Doris Furgeson, Lake Wales, FL**

"I fly from Vancouver to Korea for business very often and suffer from tiredness and jet lag. I bought the O2 oxygen liquid drops to try and I could not imagine to feel so good after such a long trip. Never have I had such energy and feeling refreshed when I arrived. I will tell my associates to use these and I need to buy more...They are amazing." **K. Whein, Korea**

"I have been buying and using BIO2 products for over 10 years. My favorite are the stabilized oxygen, the D.E.C. (digestive enzyme complex) capsules and of course the Super Greens. Steve and

his staff have been great. All I have to do is call the toll free number and they send my order out the very same day. I am very excited to hear about the new products." **Julie White, Bismarck, ND**

"I am an asthma sufferer from childhood and also teach yoga part-time. I do not like taking medication unless I absolutely have to. I've been using the bottled oxygen for about 7 months and feel so much better. I have only used my puffer once and you should market this for asthma and bronchitis patients. I can honestly say that your drops have helped me to breathe better and also feel more energetic, even after 3 yoga classes." **M. Wallace, BC**

"Just want to tell you how my family and I have used many BIO2 products for years, with great results. One example, my mother, 90 years young, can't be without her OxiMSM™ roll on. At bedtime, she applies it on her sore joints, with wonderful fast pain relief." **C.J. Mellon and family, Sarta, FL**



O2 Worldwide
Layton, Utah 84041, USA
www.o2WWW.com