



Starting in 1996, Oxigenesis has conducted research on and the testing of ASO® both at universities as well as independent laboratories around the world to determine efficacy. Here is a list of the major tests and research:

Study Focus	Conducted By	Results
<b>ASO® Isotopic Oxygen Molecule Research</b>	Washington State University, Stable Isotope Core Laboratory, Pullman, WA USA	The presence of O <sup>18</sup> isotopes was confirmed at 0.4 mg/L.
<b>Antimicrobial Time Kill Testing of QAO2™ on Test Organisms</b>	Accugen Laboratories, Addison, IL USA	QAO2™ demonstrated antimicrobial activity up to 99.85% at 60 seconds on Staphylococcus aureus, Pseudomonas aeruginosa, Bacillus subtilis, Candida albicans, Escherichia coli O157:H7, Salmonella choleraesuis, Listeria monocytogenes, Aspergillus flavus, Aspergillus niger, Trichophyton interdigitale, Clostridium sporogenes, and Mycobacterium bovis.
<b>Antimicrobial Time Kill Testing of QAO2™ Gel on Test Organisms</b>	Accugen Laboratories, Addison, IL USA	The QAO2™ gel demonstrated antimicrobial activity on Candida albicans from 68% (60 seconds) to 91% (5 minutes).
<b>ASO® Antimicrobial Ingredient Analysis</b>	Element Laboratories, Santa Fe Springs, CA USA	ASOr contains both chorur and chloric acid in sufficient quantities to provide antimicrobial efficacy.
<b>QAO2™ Ion Chromatography, Conductivity and Specific Gravity.</b>	Jordi Laboratories, Mansfield, MA USA	Mineral cation analysis completed.
<b>ASO® Efficacy and Safety Ingredient Analysis</b>	Pace Analytical Laboratories, Camarillo, CA USA	There was no presence of chlorate or chlorite in the ASO® sample.
<b>ASO® Efficacy and Safety and Ingredient Analysis</b>	Alliance Technologies, LLC, Monmouth, NJ USA	Levels of dissolved O <sub>2</sub> , H <sub>2</sub> O <sub>2</sub> , HClO <sub>2</sub> , ClO <sub>2</sub> and HOCl were analyzed for the purpose of determining antimicrobial efficacy.
<b>Laser Particle Count to Determine Particle Size of ASO®</b>	Soectrex	Molecular particle size analysis completed indicating the presence of molecules from 1 - 40 nanometers in size.
<b>Disinfection Effect of ASO® On Seed Born Diseases</b>	Incotech Holdings, The Netherlands	ASO® can suppress the growth upon direct contact on carrots and red cabbage.

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<b>ASO® Free Oxygen Analysis Test</b>	Third State Analytical Labs, Mari- ana, FL USA	Confirmation of the presence of stabilized oxygen in concentrations greater than 25% by volume.
<b>ASO® Capillary Micro- scope Dissolved Oxygen Saturation Test</b>	Third State Analytical Labs, Mari- ana, FL USA	Free oxygen ( <sup>16</sup> O) is present in ASO® as it was absorbed into the blood stream both sublin- gually and/or internally after it was tagged with Protac C/Iodine26 in every adminis- tered case.
<b>ASO® Test for the Presence of H2O2</b>	AnalysisNow!, Chandler, AZ USA	H2O2 is present in ASO® at a level of ap- proximately .05 ppm which adds to the products efficacy against microorganisms.
<b>Determine Levels of Hy- drogen Sulfide in ASO®</b>	Creek Analytical Laboratories, Inc., San Luis Obispo, CA USA	No hydrogen sulfide was detected in ASO®.
<b>The Concentration of Lac- tate in the Blood and the Improvement of the Max- imum Reception of Oxygen after the Ingestion of ASO® So- lution</b>	Nicos Yiannaki Pericleous, M.Sc., ACSM, Cyprus	The analysis fluctuation of two-way ANOVA with repeated measurements, and the post- hoc test Turkey, 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 com- pared to sampling done while exercising one week prior to the repetition of the test using the oxygen solution (ASO®). In three test cases, 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.
<b>Microbiological Evaluation of Stabilized Oxygen on Cat's Claw</b>	Dr. Joseph Montecalvo, Jr., Ph.D., Chair Food Sciences, California Polytechnic State University, San Luis Obispo, CA USA	We find that Stabilized Oxygen is very effec- tive 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.
<b>ASO® Disinfectant Efficacy Test</b>	Nelson Laboratories, Inc., Salt Lake City, UT	When tested undiluted, the Stabilized Oxy- gen demonstrated variable killing effect against the three test organisms (Staphylo- coccus aureus, Salmonella choleraesuis and Pseudomonas aeruginosa), after a 10 minute exposure.

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<b>Modified Antimicrobial Preservative Effectiveness Test</b>	Nelson Laboratories, Inc., Salt Lake City, UT	Organisms tested: Staphylococcus aureus(Bacteria), Pseudomonas aeruginosa (Bacteria), Escherichia coli (Bacteria), Candida albicans (Yeast), Aspergillus niger (Mold) and Aspergillus flavus (Mold). The diluted ASO® 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.
<b>Broiler Study</b>	Drs. Antonio & Andreas Rotou, DVM, Cyprus	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.
<b>ASO® Stabilized Liquid Oxygen As an Ergogenic Aid for Sprinters In a Competition/Heat Scenario</b>	Dr. Hj Danish Zaheer Hj Zaheeruddin MD., PhD., David Hennessy Bsc (Hons), Sports Medicine & Research Centre, Department of Youth & Sports, Brunei Darussalam	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 the placebo.
<b>Plant Pathology Research: ASO® Activated Oxygen</b>	Dr. Michael Yoshimura, Ph.D., School of Biological Sciences, Plant Phytopathology Department, California State Polytechnic University San Luis Obispo, CA U.S.A.	ASO® reduced the incidence of Alternaria zinniae on zinnia seeds. Germination rates tended to be increased by the ASO®. Under conditions where seed lots are heavily
		infested with Alternaria zinniae, seed disinfection with ASO® 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.
<b>An investigation of the ergogenic and physiological effects of ingesting a high concentration oxygen supplement on subsequent exercise performance in running.</b>	Neil Fleming, Ph.D. (Principal Investigator), Department of Kinesiology, Recreation and Sport, Indiana State University	Overall, the results of the current study illustrate that following ingestion of OS the majority of participants improved their performance in a 5000m time-trial and showed enhanced recovery post-exercise. On average, the group improved 12 seconds in the time-trial and showed more rapid clearance of lactic acid, by an average of 78 seconds.

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<b>Acute Inhalation (LC50) Toxicity Testing with Rodents</b>	SGS U.S. Testing Company Inc., Fairfield, NJ	When tested as specified, ASO® Stabilized Oxygen Solution at 40% Strength Concentration Solution, was not acutely toxic to the test animals following a 4-hour inhalation exposure
<b>Acute Oral Toxicity Testing with Rodents</b>	SGS U.S. Testing Company Inc., Fairfield, NJ	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.
<b>Acute Dermal Irritation/Corrosion Test</b>	SGS U.S. Testing Company Inc., Fairfield, NJ	When tested as specified, ASO® Stabilized Oxygen Solution at 20% Strength Concentrated Solution, did not induce dermal irritation in the test animals following a 4-hour dermal exposure.
<b>Acute Dermal Toxicity Test</b>	SGS U.S. Testing Company Inc., Fairfield, NJ	When tested as specified, ASO® Stabilized Oxygen at 20% Strength Concentrated Solution was not acutely toxic to the test animals following dermal application of the test substance.
<b>Eye Irritation Test With Laboratory Rabbits</b>	SGS U.S. Testing Company Inc., Fairfield, NJ	When tested as specified, ASO® Stabilized Oxygen at 20% Strength Concentrated Solution, was not an eye irritant.
<b>Skin Sensitization Test, Guinea Pig Assay Maximization Test</b>	SGS U.S. Testing Company Inc., Fairfield, NJ	All the test and the control animals appeared normal and showed progressive weight

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ASO® and QAO2™ are sold as dietary supplements. They are not intended to read, cure, prevent or diagnose any disease or medical condition.