



# GreenOx

<sup>+</sup>O<sub>2</sub> TEKNOLOJİSİ



# GREENOX TECHNOLOGY ENGINEERING

Greenox Technology Engineering was established in 2024 with the aim of contributing to scientific and technological advancements and producing innovative solutions. The company has set its primary goal as improving existing technologies in the sector and conducting research on new technologies to develop sustainable and innovative solutions.

Especially during the pandemic, the natural elimination of bacteria and viruses has become critically important. While the world faces challenges in accessing clean water and higher-quality air, the developed devices aim to provide definitive and natural solutions to these issues.





### **R&D Focused**

Our company has strengthened its R&D infrastructure and completed the production of the ENERGIZED OXYGEN GENERATOR, which we have been working on for a long time. The product has successfully passed all necessary laboratory and field tests, yielding scientifically proven results.

### **Local and National**

With the slogan "A cleaner world is possible," Greenox Technology has conducted numerous experiments and studies in the fields of water and the environment using the energy of oxygen. It has been developed with local and national resources.

### **Sustainable**

In the future, Greenox Technology plans to contribute to sustainability and green transformation goals in the sector by expanding its innovative products and solutions, thereby increasing its market share.





# OUR VISION AND MISSION

## Our Vision

We aim to advance the world toward a cleaner, healthier, and more sustainable future through scientific and technological progress. We aspire to become a global reference point..

## Our Mission

We embrace the fundamental duty of producing sustainable solutions to environmental problems through scientific research and innovative technologies. With our R&D-focused approach, we lead the green transformation.

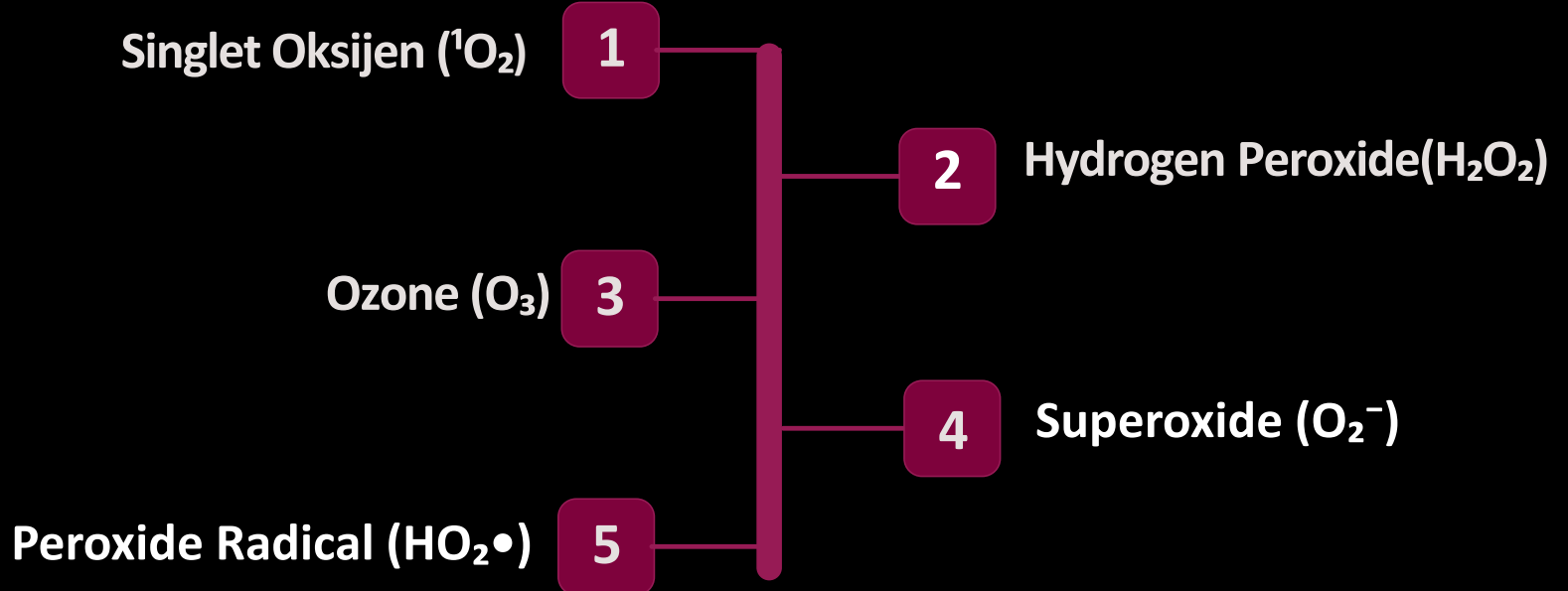


# WHAT IS ENERGIZED OXYGEN?

Energized oxygen is a state where oxygen molecules are stripped of high-energy particles, forming more reactive forms. This occurs when oxygen is held in a different form than its usual state ( $O_2$ ). The energized forms of oxygen are highly reactive and play a more effective role in chemical changes or biological systems.



# TYPES OF ENERGIZED OXYGEN



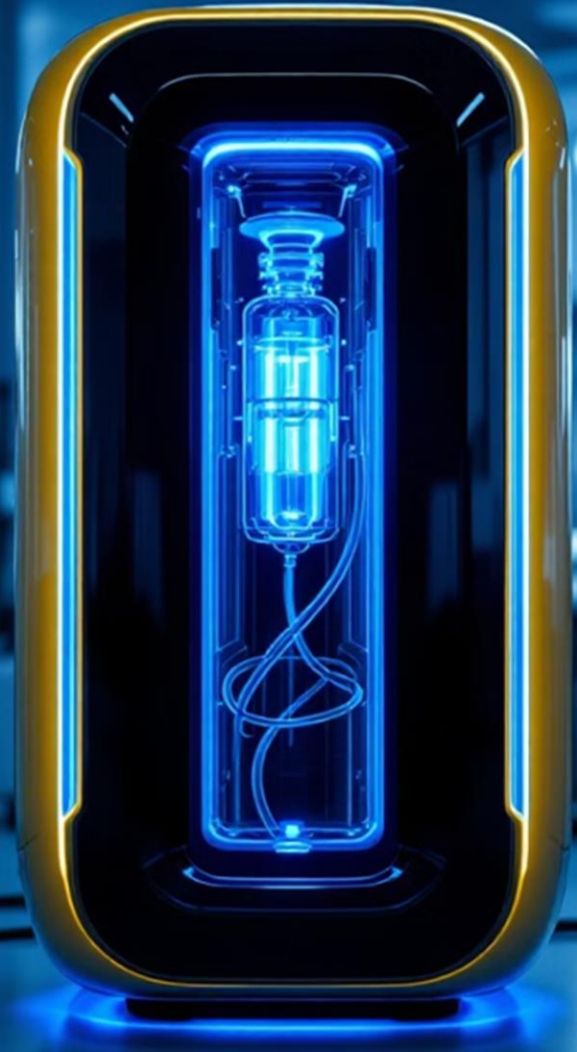




# WHAT IS SINGLET OXYGEN?

Singlet oxygen is an excited form of the oxygen molecule ( $O_2$ ) with a different electron configuration than its ground state. Normally, the oxygen molecule (triplet oxygen) contains two unpaired electrons and is in a triplet state. Singlet oxygen, however, is formed when one of these electrons is excited to a higher energy level, causing the electrons to pair up. In this state, the oxygen molecule is in a singlet state.





# WHAT IS THE GREENOX DEVICE?

GreenOx converts oxygen molecules ( $O_2$ ) into high-energy singlet oxygen using a plasma reactor.

GreenOx is a disinfection and sterilization device that produces singlet oxygen to eliminate harmful microorganisms (bacteria, viruses, fungi, etc.). It is chemical-free and environmentally friendly.

Modular devices capable of producing singlet oxygen in the range of 5 g/hour to 200 g/hour can also be manufactured in desired capacities (kg) as needed. It has been developed with local and national resources.





# ADVANTAGES

## 1 Environmentally Friendly

Leaves no chemical residue; it is a natural solution. A sustainable and eco-friendly technology.

## 2 High Efficacy

Highly effective against microorganisms. Permanently eliminates bad odors.

## 3 Harmless to Human Health

A natural method, it poses no harm to human health. Improves air and water quality.

## 4 Ease of Use

Portable and easy-to-install devices. User-friendly interface with automatic control systems.





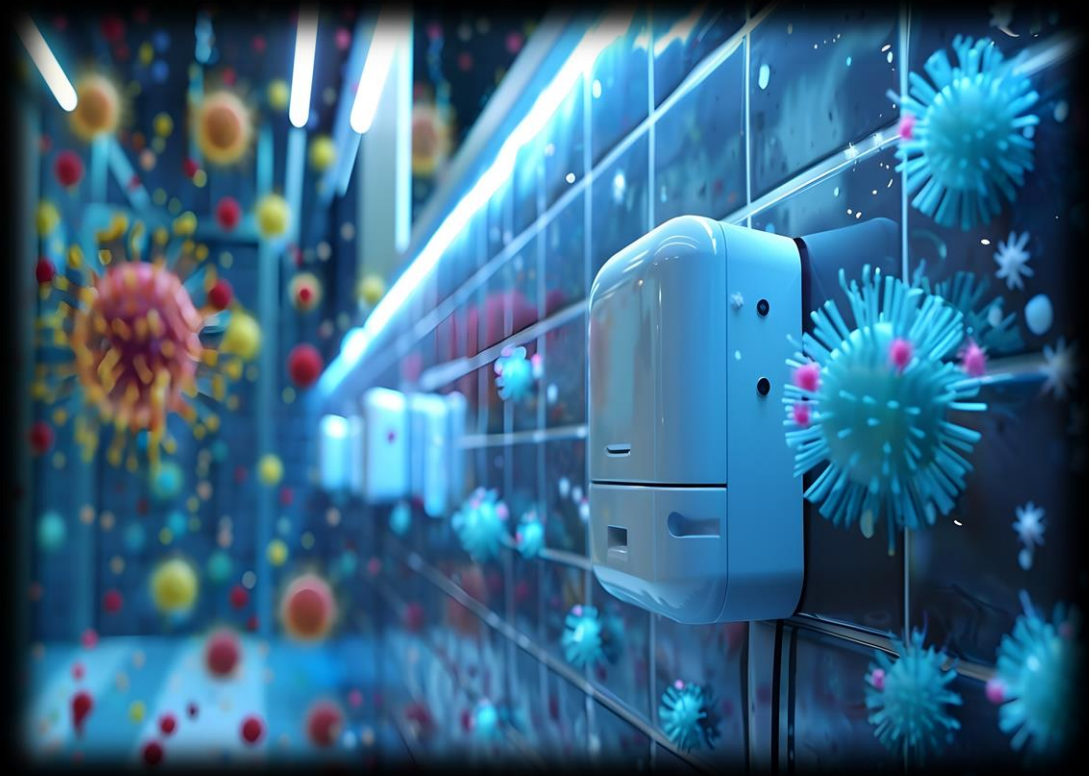
# GREENOX APPLICATIONS

## 1. Air Disinfection and Odor Elimination

The GreenOx Device is highly effective in eliminating bacteria, viruses, pests, mold, fungi, toilet odors, cigarette smoke, and VOC gases in the environment.

### Advantages:

- Leaves no chemical residue; it is a natural solution.
- Highly effective against microorganisms.
- Permanently eliminates bad odors.
- Improves air and water quality.
- Energy-efficient.
- Portable and easy-to-install devices.
- User-friendly interface with automatic control systems.
- More effective and long-lasting compared to chemical odor eliminators.
- A natural method, harmless to human health.
- Breaks down organic compounds to eliminate odors.
- A natural and eco-friendly solution.





## 2. Water Sterilization

Singlet oxygen is more energetic and reactive than normal triplet oxygen ( $^3\text{O}_2$ ). This property allows it to damage the cell structures of pathogenic microorganisms (bacteria, viruses, fungi, etc.) in water.

### Advantages:

- **Compared to Chlorination:** Chlorination can produce carcinogenic byproducts such as trihalomethanes (THMs) and haloacetic acids (HAAs). Singlet oxygen does not produce such harmful byproducts.
- **Compared to Ozonation:** Ozonation can produce toxic byproducts like bromate. Singlet oxygen naturally decomposes and leaves no toxic residues.
- **Compared to UV Disinfection:** UV rays may lose effectiveness in water with suspended solids or turbidity. Singlet oxygen reacts directly with target molecules, providing more effective oxidation.







### 3. Agriculture Sector

Singlet oxygen can oxidize organic pollutants in water (e.g., pesticides, industrial chemicals, pharmaceutical residues) to break them down. These pollutants may not be completely removed by traditional water treatment methods, but singlet oxygen's high reactivity enables effective decomposition.

#### Advantages:

- High Reactivity:** Singlet oxygen reacts quickly with many pollutants and pathogens.
- Environmentally Friendly:** Produces no harmful chemicals as byproducts.
- Broad Application:** Effective against a wide range of pollutants and pathogens.





## 4. Food Industry

In the food sector, singlet oxygen ( $O_2$ ) is a reactive form of oxygen used in food processing, preservation, and sterilization.

### Advantages:

- **Environmentally Friendly:** Compared to chemical disinfectants, singlet oxygen is more eco-friendly and leaves no harmful residues.
- **Effective and Fast:** Acts quickly and effectively against microorganisms.
- **Food Safety:** Extends shelf life while enhancing food safety.





## 5. Industrial Chimney Odor Elimination

Odor-causing compounds in industrial chimney gases are typically volatile organic compounds (VOCs), sulfur compounds (e.g., hydrogen sulfide, mercaptans), and nitrogen compounds. Singlet oxygen reacts with these compounds, converting them into less harmful or odorless substances.

### Advantages:

- **High Reactivity:** Singlet oxygen reacts quickly and effectively with odor-causing compounds.
- **Environmentally Friendly:** This method eliminates odors without using harmful chemicals, producing mostly harmless byproducts.
- **Broad Application:** Effective against various odors arising from different industrial processes.







## 6. Livestock

Singlet oxygen ( $O_2$ ), with its high reactivity and oxidative effects, offers innovative solutions in livestock for hygiene, health, and productivity. Greenox is a versatile tool for fish, poultry, and livestock farms, improving hygiene, treatment, and efficiency. Its potential to address antibiotic resistance and environmental pollution highlights its significant role in modern livestock farming.

### Advantages:

- **Environmentally Friendly:** Leaves no chemical disinfectant residues.
- **Sustainability:** Reduces antibiotic use, aligning with "green livestock" goals.
- **Cost-Effectiveness:** Minimizes economic losses due to diseases.





## 7. Agriculture: Enhancing Soil Fertility and Accelerating Plant Growth

Greenox offers a comprehensive solution for maintaining soil health while promoting faster and healthier plant growth. It is particularly promising for organic and sustainable farming practices.

### Advantages:

- **Environmentally Friendly:** Leaves no chemical residues and does not disrupt soil microbiota.
- **Sustainability:** Safer than traditional pesticides and fumigants.
- **Rapid Action:** Can neutralize pathogens within minutes.
- **Cost-Effectiveness:** Preserves soil fertility in the long term, reducing input costs.





# PRODUCTS

## GREENOX GNX-S10 MODEL

### USAGE AREAS:

Ideal for disinfecting and sterilizing shared spaces (homes, workplaces, hotels, schools, gyms, playgrounds, cinemas, cafes, restaurants, malls, etc.) with air volumes up to 1,000 m<sup>3</sup>. Eliminates 99.9% of harmful bacteria, viruses, mold, fungi, and bad odors quickly and without residue. Leaves no chemicals and requires no consumables.

Also ideal for disinfecting and sterilizing drinking, utility, and pool water in shared spaces with water volumes up to 300 m<sup>3</sup>. Removes 99.9% of harmful bacteria, viruses, mold, and fungi quickly and without residue. Eliminates the need for chlorine and flocculants. Cleans pipeline networks. After purification, singlet oxygen quickly reverts to oxygen form. Leaves no chemicals and requires no consumables. Easy installation to pipelines or water tanks via built-in connectors.



Model	GNX-S10
Device Capacity	10 g/h
Power	90 W
Weight	5 kg
Operating Voltage	220-240 VAC 50 Hz
Dimensions	250mm/250mm/300mm
Usage Mode	Manuel-Automatic-Full





# GREENOX GNX-S50 MODEL

**USAGE AREAS:**

Ideal for disinfecting and sterilizing shared spaces (homes, workplaces, hotels, schools, gyms, playgrounds, cinemas, cafes, restaurants, malls, etc.) with air volumes up to 1,000 m³. Eliminates 99.9% of harmful bacteria, viruses, mold, fungi, and bad odors quickly and without residue. Leaves no chemicals and requires no consumables.

Also ideal for disinfecting and sterilizing drinking, utility, and pool water in shared spaces with water volumes up to 300 m³. Removes 99.9% of harmful bacteria, viruses, mold, and fungi quickly and without residue. Eliminates the need for chlorine and flocculants. Cleans pipeline networks. After purification, singlet oxygen quickly reverts to oxygen form. Leaves no chemicals and requires no consumables. Easy installation to pipelines or water tanks via built-in connectors.



Model	GNX-S50
Device Capacity	50 g/h
Power	150 W
Weight	7 Kg
Operating Voltage	220-240 VAC 50 Hz
Dimensions	330mm/330mm/340mm
Usage Mode	Manuel-Automatic-Full



# GREENOX GNX-S200 MODEL

**USAGE AREAS:**

Ideal for disinfecting and sterilizing shared spaces (homes, workplaces, hotels, schools, gyms, playgrounds, cinemas, cafes, restaurants, malls, etc.) with air volumes up to 1,000 m³. Eliminates 99.9% of harmful bacteria, viruses, mold, fungi, and bad odors quickly and without residue. Leaves no chemicals and requires no consumables.

Also ideal for disinfecting and sterilizing drinking, utility, and pool water in shared spaces with water volumes up to 300 m³. Removes 99.9% of harmful bacteria, viruses, mold, and fungi quickly and without residue. Eliminates the need for chlorine and flocculants. Cleans pipeline networks. After purification, singlet oxygen quickly reverts to oxygen form. Leaves no chemicals and requires no consumables. Easy installation to pipelines or water tanks via built-in connectors.



Model	GNX-S200
Device Capacity	200 g/h
Power	300 W
Weight	15 Kg
Operating Voltage	220-240 VAC 50 Hz
Dimensions	500mm/500mm/600mm
Usage Mode	Manuel-Automatic-Full



# GREENOX GNX-W10 MODEL

## USAGE AREAS:

Ideal for disinfecting and sterilizing drinking and utility water in shared spaces (homes, workplaces, hotels, schools, gyms, playgrounds, cinemas, cafes, restaurants, malls, etc.). Removes 99.9% of harmful bacteria, viruses, mold, and fungi quickly and without residue. Cleans pipeline networks. Eliminates the need for chlorine. After purification, singlet oxygen quickly reverts to oxygen form. Leaves no chemicals and requires no consumables. Easy installation to pipelines or water tanks via built-in connectors.



Model	GNX-W10
Device Capacity	10 g/h
Power	90 W
Weight	5 Kg
Operating Voltage	220-240 VAC 50 Hz
Dimensions	250mm/250mm/300mm
Usage Mode	Manuel-Automatic-Full





# GREENOX GNX-M10 MODEL

## USAGE AREAS:

Ideal for disinfecting and sterilizing kitchen utensils (plates, glasses, spoons, forks, knives, etc.) in shared spaces (homes, workplaces, hotels, schools, gyms, playgrounds, cinemas, cafes, restaurants, malls, etc.). Removes 99.9% of harmful bacteria, viruses, mold, and fungi quickly and without residue. Leaves no chemicals and requires no consumables. After cleaning, singlet oxygen quickly reverts to oxygen form.



Model	GNX-M10
Device Capacity	10 g/h
Power	90 W
Weight	15 Kg
Operating Voltage	220-240 VAC 50 Hz
Dimensions	400mm/400mm/500mm
Usage Mode	Manuel-Automatic-Full



# GREENOX GNX-M100 MODEL

## USAGE AREAS:

Ideal for disinfecting and sterilizing kitchen utensils (plates, glasses, spoons, forks, knives, etc.) in shared spaces (homes, workplaces, hotels, schools, gyms, playgrounds, cinemas, cafes, restaurants, malls, etc.). Removes 99.9% of harmful bacteria, viruses, mold, and fungi quickly and without residue. Leaves no chemicals and requires no consumables. After cleaning, singlet oxygen quickly reverts to oxygen form.



Model	GNX-M100
Device Capacity	100 g/h
Power	250 W
Weight	65 Kg
Operating Voltage	220-240 VAC 50 Hz
Dimensions	600mm/600mm/1800mm
Usage Mode	Manuel-Automatic-Full



# GREENOX GNX-A100 MODEL

## USAGE AREAS:

Ideal for disinfecting, sterilizing, and deodorizing all types of vehicles. Removes 99.9% of harmful bacteria, viruses, mold, and fungi quickly and without residue. Leaves no chemicals and requires no consumables. After cleaning, singlet oxygen quickly reverts to oxygen form.



Model	GNX-A100
Device Capacity	100 g/h
Power	250 W
Weight	15 Kg
Operating Voltage	220-240 VAC 50 Hz
Dimensions	500mm/500mm/600mm
Usage Mode	Manuel-Automatic-Full





## GREENOX GNX-E100 MODEL

Suitable for industrial use. Can be customized for factories, production farms, and water treatment sectors to produce singlet oxygen in desired capacities.

### Features:

- Custom device production based on project requirements.
- Integration with existing automation systems.
- Real-time monitoring and control.
- Redundant and uninterrupted operation in case of failures.
- Remote monitoring and control.
- Custom design and production per customer requests.







# CERTIFICATE

## GREENOX TEKNOLOJİ MÜHENDİSLİK SANAYİ VE TİCARET ANONİM ŞİRKETİ

YENİŞEHİR MAIL RUMİ SOK. NO:26 İÇ KAPI NO:4  
ATAŞEHİR / İSTANBUL / TÜRKİYE

Has been assessed and found to comply with the requirements of:  
Denetlenmiş ve aşağıdaki standardın gerekliliklerine uygunluğu görülmüştür:

### ISO 14001:2015

The Environmental Management System is applicable to  
Çevre Yönetim Sistemi:

MANUFACTURE OF THERAPEUTIC INSTRUMENTS AND DEVICES  
FOR IRRADIATION, ELECTRO MEDICAL AND ELECTRO THERAPY

TERAPATİK ALET VE CİHAZLARIN VE IŞINLAMA, ELEKTRO MEDİKAL  
VE ELEKTRO TERAPİ İLE İLGİLİ CİHAZLARIN İMALATI

Certificate Number: EMS-006211  
Belge Numarası: EMS-006211

Initial Certification Date: 25.02.2025  
İlk Belgelendirme Tarihi: 25.02.2025

Certification Period: 3 Years  
Belgelendirme Periyodu: 3 Yıl

Certificate Validity Date: 24.02.2026  
Belge Geçerlilik Tarihi: 24.02.2026



IQR Sertifikasyon Oranı



ACCREDITED  
Management Systems  
Certification Body  
MSCB-135

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# CERTIFICATE

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YENİŞEHİR MAIL RUMİ SOK. NO:26 İÇ KAPI NO:4  
ATAŞEHİR / İSTANBUL / TÜRKİYE

Has been assessed and found to comply with the requirements of:  
Denetlenmiş ve aşağıdaki standardın gerekliliklerine uygunluğu görülmüştür:

### ISO 45001:2018

The Occupational Health and Safety Management System is applicable to:  
İş Sağlığı Ve Güvenliği Yönetim Sistemi:

SALES OF THERAPEUTIC INSTRUMENTS AND DEVICES, MANUFACTURE  
OF DEVICES RELATED TO IRRADIATION, ELECTRO MEDICAL  
AND ELECTRO THERAPY

TERAPATİK ALET VE CİHAZLARIN SATIŞI, IŞINLAMA, ELEKTRO  
MEDİKAL VE ELEKTRO TERAPİ İLE İLGİLİ CİHAZLARIN İMALATI

Certificate Number: OHSMS-002217  
Belge Numarası: OHSMS-002217

Initial Certification Date: 25.02.2025  
İlk Belgelendirme Tarihi: 25.02.2025

Certification Period: 3 Years  
Belgelendirme Periyodu: 3 Yıl

Certificate Validity Date: 24.02.2026  
Belge Geçerlilik Tarihi: 24.02.2026



IQR Sertifikasyon Oranı



ACCREDITED  
Management Systems  
Certification Body  
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T.C.  
SELÇUK ÜNİVERSİTESİ  
VETERİNER FAKÜLTESİ  
VETERİNER TEŞHİS ve ANALİZ LABORATUVARI  
(Alaeddin Keykubat Kampüsü Selçuklu/KONYA İzin No:TAL-20)



Laboratuvar Adı :  
Tel :  
E-posta :  
İnternet adresi :

Mikrobiyoloji Laboratuvarı  
0-332-2410041  
vetfak@selcuk.edu.tr  
www.selcuk.edu.tr/veteriner/tr

İstek Tarihi / No: 26.03.2025 / 2403-01

Rapor No: 2025/210-98543464 ve Tarihi: 21.05.2025

Numunenin Geldiği Yer ve Tarihi: GreenOX Teknoloji ve Mühendislik Sny. ve Tic. A.Ş., 26.03.2025  
Numunenin gönderiliş şekli: Elden teslim

GreenOX Teknoloji ve Mühendislik Sny. ve Tic. A.Ş. tarafından üretilen GREENOX marka, GNX-S10 model cihazın ürettiği Singlet Oksijen gazının antimikrobiyal etkinliği aşağıdaki tabloda belirtilen mikroorganizmalar üzerinde belirtilen sürelerde test edilmiş ve sonuçlar sunulmuştur.

Sonuç;

Mikroorganizma Adı	Test Başlangıcı m.org sayısı	24. saat m.org sayısı	48. saat m.org sayısı
Staphylococcus aureus ATCC 25 923	$1 \times 10^4$ *CFU/ml	Öreme yok	Öreme yok
Escherichia coli ATCC 29998	$1 \times 10^4$ CFU/ml	Öreme yok	Öreme yok
Candida albicans ATCC 90028	$1 \times 10^4$ CFU/ml	Öreme yok	Öreme yok
Aspergillus flavus saha izolatu	$1 \times 10^4$ CFU/ml	$1 \times 10^4$ CFU/ml	Öreme yok

\*CFU: Colony Forming Unit / koloni oluşturan birim

Analiz / Test Muayene Metodu: Konvansiyonel Mikrobiyolojik Metotlar

Prof. Dr. Zafer SAYIN  
Teşhis ve Analiz / Rapor

Prof. Dr. Osman ERGANIŞ  
Mikrobiyoloji Ana Bilim Dalı Bşk

Analiz/Test / Muayene sonuçları yukarıda belirtilen numune(ler) için geçerlidir.

Alaeddin Keykubat Kampüsü Selçuklu/KONYA Tel:03322 410041 Faks: 0332 2410063



# CONTACT INFORMATION



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