

VARO

Portable Sterilizing Solution Generator

99.999% eradication of
viruses and bacteria



Smart choice for protecting yourself from COVID-19,
Korea's first perfect weapon developed
for fighting viruses

It is VARO, a portable sterilizing solution generator

By eradicating 99.999% of
viruses and bacteria, take care
of your health using a sterilizing
solution that is not harmful
to the human body.

Sterilizing solution
generator that can be
used semi-permanently

Eco-friendly ●

Non-irritating ●

Safe sterilizing
solution ●

Applied patented
technology ●

Portable
generator
of sterilizing
solution that
is made 99%
of water

HEALTHY

| Healthy It is not harmful to the human body

CONVENIENT

| Convenient It conveniently fits right into
your pocket or bag. Press the button
anytime and anywhere you need
sterilization or disinfection.

ECONOMICAL

| Economical Uses tap water and mineral water,
which makes it less expensive
compared to general sterilizers



Ultra-precision electrolysis innovative technology generates hypochlorous acid sterilized water (HOCL).

Generation of HOCL sterilizing solution

99.999% sterilization of viruses and bacteria

By applying electrolysis on water particle clusters of 120-250Hz, it generates 50-60Hz HOCL sterilizing solution. HOCL sterilizing solution clearly removes viruses and bacteria while being



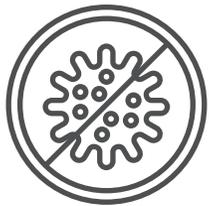
Application of TIL technology

Three-layered alloy electrolysis innovative technology is a patented technology used for quickly and safely decomposing oxygen and hydrogen from water and dispersing and dissolving hydrogen between water particles.



In the office / outdoors / camping / business trip / travel

With VARO concern for virus



Sterilizing / deodorizing capabilities

It sterilizes and deodorizes
even if you apply it on
a wet tissue



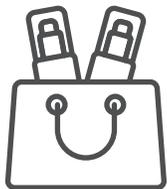
Safety

VARO has been tested
for its safety on the
human body



Technology

Fast and strong
2-minute manufacturing



Portability

Compact size and
delicate design that
makes it portable



Economic Feasibility

High utilization,
superior economics

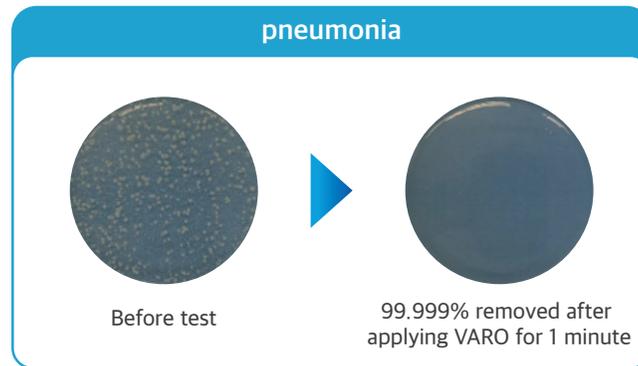
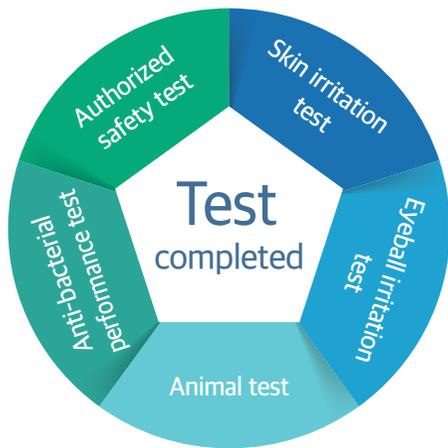


Convenience

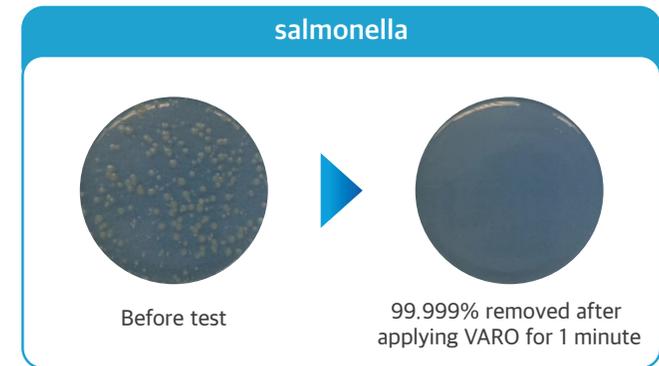
It is easy to use anytime
and anywhere

VARO has been tested of its safety by an authorized institution

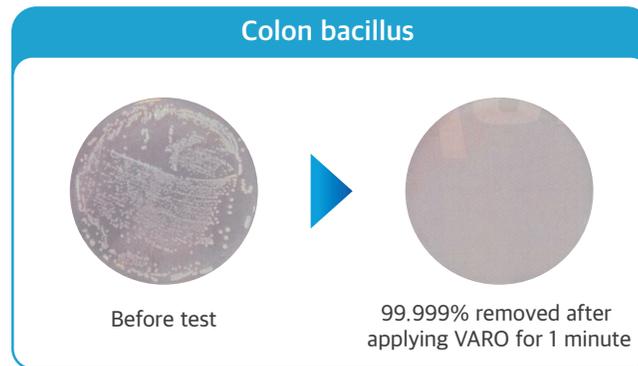
VARO's powerful but **safe** sterilization, no irritation and non-toxic sterilizer



Pneumonia anti-bacterial test conducted by FITI Testing and Research Institute



Salmonella anti-bacterial test conducted by FITI Testing and Research Institute



Colon bacillus anti-bacterial test conducted by Korea Conformity Laboratories



Aeruginosa anti-bacterial test conducted by Korea Conformity Laboratories

Did you know that sterilizing solutions are being used in the operating rooms of general hospitals and animal hospitals?



General Hospital

Used by doctors to disinfect hands and elbows before performing surgery



Baby Products

VARO can be used for hygiene management and care on things that can be easily touched by babies such as baby products, toys, strollers, baby beds, and furniture.



Companion Animals

VARO care can be used on every product and for the hygiene management of your dogs and cats.



Hotels, Condos

It can be used for sterilizing sleeping gear, silverware, and household furniture.



Animal Hospitals

Infection control sterilized water, surgical instruments, procedural device, etc.



Kitchen Appliances

It can be used for sterilizing kitchen appliances (e.g. cutting boards, knives, pots).



Offices

Sterilization care for desks, office supplies, computers, and smart phones



Public Transportation (e.g. trains, buses)

Clean care for handles and seats that are frequently touched and where bacteria are breed



Automobiles

Bacterial sterilization in every nook and cranny of the car and used to purify indoor air



Bathrooms

VARO care can be used for every product in the bathroom and hygiene management after taking a walk.



Camping

Convenient hygiene care at outdoor camping sites that are not cleaned well and vulnerable to bacteria



In-Flight

It can be conveniently carried on the plane, which makes it essential item for hygiene care while traveling and on business trips!



Easy-to-make **VARO** used for **instant sterilizing / deodorizing VARO**

For yourself,
your beloved children,
your parents and family members,
your neighbors,
and your pets

Safe and clean!

Pleasant!

Sterilization and Deodorization!



VARO can be conveniently used by anyone at anytime and anywhere

“Escape from viruses”

“For bacteria and viruses that start from your hands,
use VARO for anywhere that your hands touch.”

Hygiene management for your children can conveniently
use the safe sterilizing solution with just the press of a button.

At school and academy... Spray it into the air for sterilizing viruses.

Apply it on toothbrushes, door handles, wet towels,
and wet tissues for sterilization.

Comparison between sterilizing solutions on the market

My choice is VARO



Category	VARO Sterilizing Solution	General Electrolyte Sterilizing Solution	Ethanol Sterilizing Solution
Sterilizing Effect	99.999%	99.9%	99%
Air Spray, Sterilization	Available	Available	Not available
Time Required	1 minute	In several minutes	Instant
Electrolyte Additives	99.3% water + 0.7% food additive	NaCl	Ethanol
Skin Irritation	None, skin-friendly low pH	Irritative, weak alkalinity	Irritative
Fire Risk	None	None	High risk
Expiration Period	Short / stable	Short / stable	Long / exposure to risk
Convenience / Economic Feasibility	Portable / semi-permanent	Household use / semi-permanent	For office use / must be purchased repeatedly

Press Report

**HOCL - the weapon for fighting viruses!
100% safe to the human body and does not contain any toxins or chemical materials**

December 20, 2019 Optometry Times

It is being widely used in general environments such as childcare facilities, hospitals, and grocery stores. HOCL is not irritating to the skin and can be used instead of hand sanitizers due to its sterilizing capabilities that are stronger than alcohol.

Hypochlorous acid: harnessing nature's germ killer
December 20, 2019
Margie Recalde, OD, FAAO



Hypochlorous acid (HOCl) is the perfect weapon to fight germs. It fights hard against pathogens like Methicillin-Resistant Staphylococcus Aureus and Pseudomonas Aeroginosa. Yet this powerful weapon is 100 percent safe for humans, chemical free, non-toxic and all natural. That's an impressive combination. It has been used in the medical field for over a century. Before antibiotics were available, HOCl was used to irrigate and disinfect wounds in World War I. It is now used in everyday settings including daycare centers, hospitals, and even produce sections in grocery stores.

HOCl is a weak acid that occurs naturally in our body. Neutrophils are white blood cells that are the first to arrive on site when an invading pathogen is detected. Neutrophils will chase down and engulf the pathogen through phagocytosis. Upon contact, neutrophils release a burst of bactericidal chemicals including its most powerful oxidizing agent, HOCl. This kills the pathogen by tearing down the cell membranes and proteins.

Margie Recalde, OD, FAAO

5-year-old kid experiences "burning on cornea" while trying to use hand sanitizer in the elevator

YTN / 2020.06.26.
https://www.ytn.co.kr/_ln/0103_202006260440269548

5살 A양, 엘리베이터 비치 손 소독제 쓰다 눈에 튀어 "손 소독제 고농도 알람을 함음...눈에 닿으면 지열적" 아이 눈높이에 설치돼 위험...분사량-세기 조절도 어려워



5살 A양, 엘리베이터 비치 손 소독제 쓰다 눈에 튀어

People are uncomfortable with the products of others. Portable hand sanitizers are hard to find!

Newsis / 2020.1.31
https://newsis.com/view/?id=NISX20200131_0000904164&clD=13001&pID=13000#

상업 > 산업일반
"내것 아니면 다 꺼림칙"...손소독제 '휴대용'도 품귀
등록 2020-01-31 11:58

국내 첫 2개 업체 확인...3개 확진자 관상부 일부 소신에 공포 "비치된 세정제 앞에 쓰기도 삼가" 휴대용 수요 급증...휴대용 품귀 마스크 손세정제도 품귀 대란...마스크는 판매량 반수 중단



세균=바이러스(바이러스)를 가차 없이 죽이는 강력한 유산균이 최근 2일 동안 서울 중구 을지로4가에서 한 시민이 비치된 손세정제를 사용하고 있다. (newsis.com)

daesoon@newsis.com

Mobile phones are 10 times dirtier than toilet seats!

Naver News / 2017.9.12 / <https://blog.naver.com/skinnyvenus/221097667275>

휴대폰이 변기 시트보다 10배 더럽다



스마트폰은 일상생활을 매일 접하게하는데, 아침저녁으로 손을 씻고 화장실도 다녀오는데도, 그런데 하루 종일 가까이하는 이 전자기기의 위생 상태는 그다지 좋지 않다고 하네요.

최근 보고에 따르면 휴대전화는 우리가 생각하는 것 이상으로 많은 세균이 살고 있다고 하네요.

휴대폰을 오염시키는 가장 큰 원인은 손!!

정확한 다목적 손살균 기술인 알코올의 조사에 따르면, 사람들은 하루 평균 4번 휴대폰을 살펴봐요. 그래서 손에 있던 많은 미생물이 휴대폰으로 옮겨 붙는다고 하네요.

텍사스나 타른대학교의 최신 연구에 따르면, 고등학교 학생들의 휴대전화를 조사한 결과, 각 휴대폰의 평균 세균 유전자 복제본은 1만 7000여 이상이었다고 하네요.

**There 200 times more bacteria inside your toothbrush than on the toilet seat!
Toothbrush sterilizer is essential, not optional**

App Story / 2020.1.23 / <https://news.appstory.co.kr/daily12726>

칫솔 속 세균이 무려 변기의 200배? 칫솔 살균기는 선택 아닌 필수

기사 입력시간 : 2020.01.23 18:40:31 | 김성우 기자



▲ 출처: 무라 연구소

칫솔은 손가락이나 젓가락 보다 통과 인물이 대일 앞에 놓기 되는 유일한 제품이다. 그런데 과연 칫솔은 위생적인지 한번은 알고 싶을 필요가 있다. 알지나 사위를 하고 나서 습기가 가득한 칫솔을 두면 세균의 온상이 된다. 변기 속 세균의 200배 정도 되는 수치까지 세균이 번식하기 쉽다.

세균은 눈에 보이지 않는 만큼 제대로 대처할 필요성이 와 알지 알지 칫솔이 오염될 경우 구강 내의 미생물에 오염될 수 있기 때문에 주의해야 한다. 물론이다 대학의 연구결과에 따르면 칫솔에 살균수 구강 세균이 있는 경우 잇몸 내치로 세균이 침투하여 감염을 유발할 수 있다고 하네요.

Q & A

Q. What are the principles of sterilization?

Electrolyzed water has 2 types of sterilization principles.

If electrolysis is applied on water (H₂O), water particles are decomposed into 2 hydrogen (H) atoms and 1 oxygen (O) atom. Due to this process, the hydrogen and oxygen atoms are re-combined and oxygen (O₂), hydrogen (H₂), hydrogen peroxide (H₂O₂), and OH⁻ (hydroxyl) are generated. The hydrogen peroxide and hydroxyl indicated above are VARO.

When tap water is used, the electrolysis process is identical, but an electrolyte additive is used for combining hydroxyl (OH⁻) and chlorine, which creates a safe hypochlorous acid (HOCL) sterilizing solution. It is not harmful to human body and the sterilizing power lasts for a long time.

Q. What are the components of the electrolyte additive?

It is an appropriate combination of 2 types of materials, which are classified into water and food additives.

Q. Can I used materials other than water?

Using materials other than the electrolyte additive may lead to product failure.

Q. How long does the sterilization effect last?

It lasts for 48 hours in a closed state and 24 hours in an open state. After this period of time, the sterilizing capability starts deteriorating gradually and it restores back to natural water after 48 hours.

Q. It does not work

If red light is blinking, try recharging the device.

Q. The spray does not work properly.

Add water up to the line. If the product does not work, remove the spray part from the container and reassemble.

Q. How long does it take to charge and how many times can it be used after being charged?

The amount of time it takes to charge and the number of uses may differ depending on the temperature of the environment in which it is used. Generally, it charges for 1-3 hours and can used for 80-100 times. (This may differ depending on the temperature.)

Q. When should I charge the device?

If red light turns on, use a C-type charger and USB and charge once a week.

Q. Are there any precautions for usage?

If 24 hours or more have passed after the sterilizing solution has been generated, press the Generate button for creating a sterilizing effect of the same level. Please become familiar with the instructions for using VARO.

- * **Do not use the VARO electrolyte additive for purposes other than for generating the sterilizing solution.**
- * **Do not put VARO electrolyte additive into your eyes. - If abnormalities occur, wash your eyes out with flowing water and visit a nearby hospital.**
- * **Do not eat or drink the VARO electrolyte additive.**
- * **Make sure that it does not come into contact with your clothes or the hands of children.**

Directions & Tips for Using VARO

Operating VARO

1. Add tap water, pure water, or purified water up to the line on the container.
2. Add two drops of VARO electrolyte additive and shake it 4-5 times.
3. Press the Power button located on the bottom of the VARO device twice in a row. If the LED indicator turns blue, it has started to generate the sterilizing solution. For optimal generation of the HOCl sterilizing solution, it operates for 2 minutes and automatically turns off.

Tips for Using VARO

1. Once the dirty materials are coated, wipe the organic matter off of the surface and apply the sterilizing solution.
2. If you are not wearing mask, spray it into the air for blocking all the viruses in the air.
3. For urgent sterilization of your hands, generate the sterilizing solution in 2 minute and apply it thoroughly on surfaces that your hands touch.
4. Use VARO sterilizing solution for sterilizing and deodorizing every moment that you need hygiene management and prevention of infection in your daily life.

Sterilization of mobile phones, toothbrushes, toys, dining tables, door handles, keyboards, wet towels, hygiene management for pet, urgent sterilization of injuries

“VARO escape from viruses” 
 “Bacteria and viruses start on your hands!”
 Use VARO for anywhere that your hands touch.”

It is a hygiene management kit for your children who can safely use the sterilizing solution with the press of a button. At school and academy, spray it into air to sterilize viruses.



Conveniently portable

VARO

