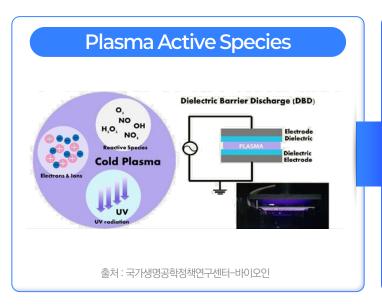


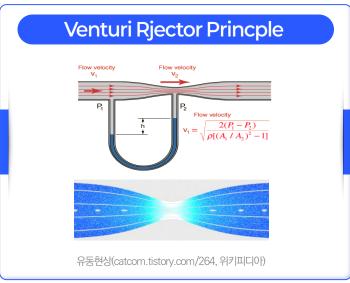
# 2 Solutions | Our Technology

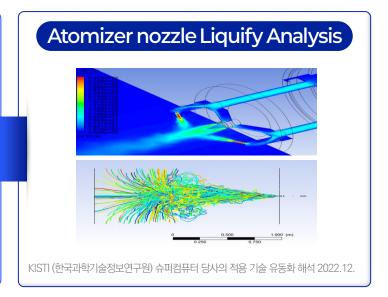


### **Technology Development Application Technology of Products**

- Ol Plasma Activation Water (Plasma Activated Water: PAW)
  - Palsoo technology development generates plasma by atmospheric pressure corona discharge, and sprays H2O and dissolved water with the principle of Venturi Ejector through the atomizer nozzle of ionized active species.
  - Plasma active species has sterilizing power against microorganisms, so it is used as sterilization and disinfectant in various forms \_ < Citation : Korea Electrotechnology Research Institute, etc. >
  - Plasma activated water is applied to crops to reduce pathogens in soil, stems, and leaves to promote crop growth \_ < Citation : Korea Nuclear Fusion Energy Research Institute, etc. >
- O2 Plasma portable sterilization sprayer application technology





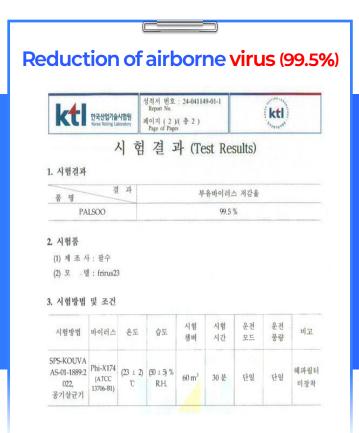


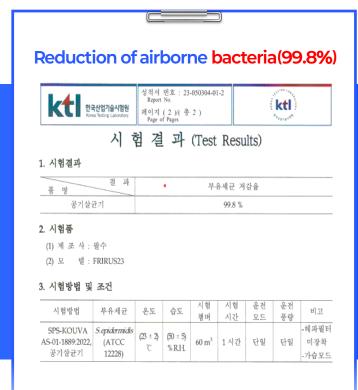
# 2 Solutions | Certification (Sterilization Test Report)

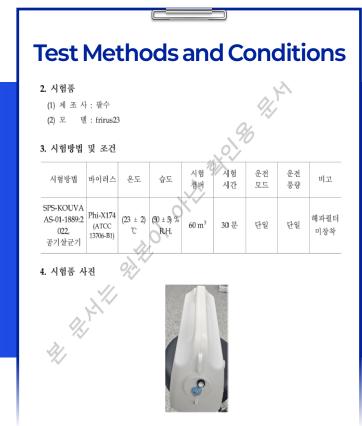


### **Sterilization Test Report - KTL Korea Testing Laboratory**

- > R&D: Plasma activated water sterilization test report (KOLAS certification body)
  - KTL Korea Testing Laboratory \_ Regulations related to the Industrial Standardization Act \_ Air Sterilizer [SPC-KOUVA-01-1889:2022]







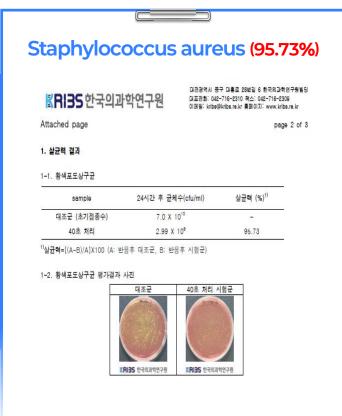
# 2 Solutions | Certification (Sterilization Test Report)

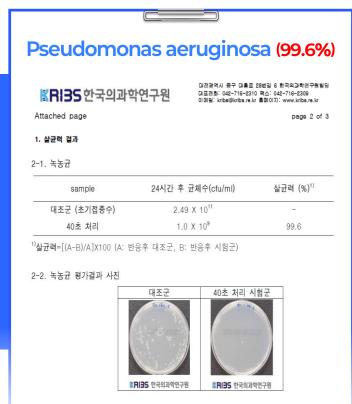


### Sterilization Test Report - KRIBS Microbiome Center, Korea Institute of Medical Science and Technology

- > Technological Development R&D: Test report of sterilization of activated plasma water (KOLAS certification body)
  - KRIBS Microbiome Center, Korea Institute of Medical Science and Technology: Sterilization Effect Test: Analytical Analysis Method (ASTM E2315 –16)

    Bactericidal power=[(A-B)/A]\*100 (A: post-reaction control, B: post-reaction test group)KRIBS







# 4 Market Analysis & Business Models



#### BM\_ Business Models



Plasma active species are based on oxygen and nitrogen systems.

Radicals are generated to remove pests and diseases.

The nitrogen component contained in the water is the liquid fertilizer

I have a function, and by promotion of the growth Smart Farm, Home Farm (Reducing Apartment Veranda Bugs),

It can also be used for eco-friendly farming methods such as weekend farms.



Plasma portable sanitizing sprayer
Entering plasma active species oxidizing radicals
It is sprayed with sterilized water and placed in
various places
It can be sterilized, and it can be disinfected in the
air or on objects
Viruses and harmful bacteria
Removable



For chicken farm, cattle shed, disinfection to pig house
It is possible to use
Odor reduction and avian flu, foot-and-mouth disease, etc.
Can prevent zoonotic diseases in advance

## **5** Overseas and Domestic Market Expansion Strategies



### Plasma Handheld Sterilization Sprayer - 2024.12.10. Finished product launch



### Plasma Portable Disinfectant Sprayer FRIRUS\_23

기준단가	USD 990		
업체명	팔수		
사업자등록번호	6072816480		
물품식별번호	25198596		
단위	대		
상품명 및 모델명	플라즈마 휴대용 살균분무기 FRIRUS_23		
규격	크기 : 485*180*250mm 재질 : ABS	용량 : 2.5L 무게 : 2.5kg	
상품설명	별도의 살균소독제 없이 천연수를 주입하여 벤츄리 이젝터(Venturi Ejector)원리		
납품조건	최소주문수량 1개 / 최소납품기한은 주문요청으로부터 20일 / 운반비(포함)		
지정일자	2023. 10. 31 ~ 2026. 10. 30(지정년도 : 2023-10)		
공고명	[정식] 23년 10월		
물품카테고리	기타아이디어상품 〉 기타 상품		
물품키워드	[플라즈마] [휴대용 소독기] [소독분무기] [태양광 충전] [태양광충전시스템] [리튬이온배터리] [아토마이저노즐] [무농약 방제] [생장촉진] [수질오염]		

## **5** Overseas and Domestic Market Expansion Strategies



### Pesticide-free backpack plasma sterilization sprayer - 2025.07.01 Ver1 to be released



### Plasma Portable Sterilization Sprayer ECORO\_23

기준단가	USD 1200	
업체명	팔수	
사업자등록번호	6072816480	
물품식별번호	25198597	
단위	대	
상품명 및 모델명	플라즈마 휴대용 살균분무기 ECORO_23	
규격	크기 : 400*250*510mm 재질 : ABS	용량 : 20L 무게 : 7.2kg
상품설명	별도의 살균소독제 없이 천연수를 주입하여 벤츄리 이젝터(Venturi Ejector)원리	
납품조건	최소주문수량 1개 / 최소납품기한은 주문요청으로부터 20일 / 운반비(포함)	
지정일자	2023. 10. 31 ~ 2026. 10. 30(지정년도 : 2023-10)	
공고명	[정식] 23년 10월	
물품카테고리	기타아이디어상품 〉 기타 상품	
물품키워드	[플라즈마] [휴대용 소독기] [소독분무기] [태양광 충전] [태양광충전시스템] [리튬이온배터리] [아토마이저노즐] [무농약 방제] [생장촉진] [수질오염]	

## **6** Globalization of Technology Development Products Proposition



### Eco-friendly materials for advancing carbon neutrality policy - application of biodegradable materials

- Conventional spraying and misting disinfection for sterilization are methods of spraying chemicals in the form of aerosols, which have high costs and problems of environmental pollution.
- As a substitute method, when plasma activated water is used for sterilization and disinfection, there is no environmental pollution and it is possible to prevent contact toxicity, inhalation toxicity, and residual toxicity.
- > By applying a solar charging system to a plasma portable sterilization sprayer, it is possible to respond to the poor sanitation environment in underdeveloped countries with limited or no supply of electrical energy, and contribute to slowing down the rate of global warming by advancing the transition to renewable energy and carbon neutrality policies.

