

TEST RESULT REPORT

Wellis AIR BACTERIAL PURIFIER

Total Airborne Bacteria

Wellis Air Disinfection Unit(WADU-02) Performance Test



National Accredited Verification Agency



KSD CO., LTD.
SUNG DAE Env'l Science R&D



Certificate Authority



FINAL REPORT
KSD0223

Wellis Air Disinfection Unit(WADU-02)Performance Test

KSD

KSD Co., Ltd.
SUNG DAE Env'l Science R&D



TSET OUTLINE

TEST TITLE : 'Wellis' air germ purifier Pathogen-reducing efficacy test

TEST NO. : ksd0223200924

TEST ITEM: Performance test for Total Airborne Bacteria reduction test

TEST PURPOSE : This experiment was conducted to evaluate the efficacy for total airborne bacteria OH function and to compare the pre- and post-sterilization status with respect to the ability to purify total airborne bacteria.

TSET METHODS : This test was conducted according to the test standard of indoor air quality process on Dec. 21, 2018 of the Ministry of Environment according to Article 6, Paragraph 1, Article 3 of the 「Act on Environmental Testing and Inspection」 .

Test Requester :

NAME: Wellis Co., Ltd.

Location: W801, SK V1 Center Bldg, 11, Dangsan-ro 41-gil, Yeungdeungoo-gu, Seoul, 07217, Korea

CEO: Eui Suk Yoo

CONTACT: Tel)82-2-6121-8250 Fax) 82-2-6121-8256

www.wellisair.com

Testing Institution:

NAME : KSD Co., Ltd. SUNG DAE Env'l Science R&D (Certificate Authority)

Location : 86 Hakhyeon-ro, Uiwang-si, Gyeonggi-do

CEO : Hyun Jo, LEE

CONTACT: Tel)82-1577-4446 Fax)82-31-624-4968

www.ksdpf.com

TEST SCHEDULE:

Primary measure, Before installation : !Sept. 24. 2020 /03:55.!

Secondary measure, After installation : !!Sept. 25. 2020 /03:55.!!

TEST DATE : !Sept. 24. 25. 2020.!

TEST END DATE : !!Sept. 27. 28. 2020.!!

결과(Result)

1) TAB (Total Airborne Bacteria)

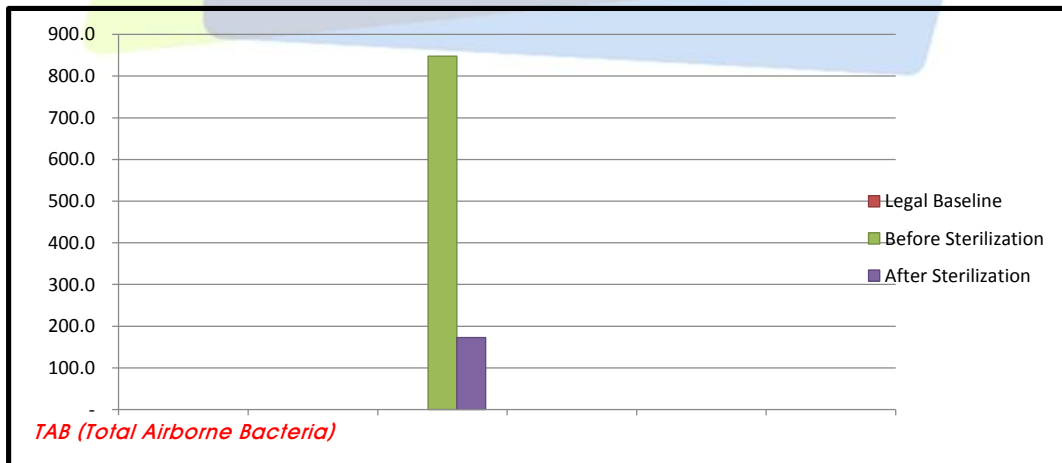
TAB Legal Baseline 800(CFU/m³), Bacterium has none.

Average value of 3 measurements

TAB (Total Airborne Bacteria) (CFU/m³)

classification	TAB (Total Airborne Bacteria)
Legal Baseline	
Before Sterilization	847.6
After Sterilization	172.8
Removal Efficiency	79.60

Table1.



※ This test is the efficiency of removing bacteria before and after operation, after air capture, after cultivation of pathogenic bacteria, after classification

The indoor environment problem is a phenomenon caused by indoor pollution, that is, various pollutants generated by human activities are released into the room and pollute the indoor environment.

There is the potential for physical, chemical and biological contaminants among indoor air, which are caused by complex sources such as inflow of outside air, tobacco smoke, heaters, oven cookware, cement, cleaners, building materials and paints. Therefore, the emission is also known to show a significant deviation depending on the pollutant. Indoor air pollution refers to the polluted air of various indoor spaces such as houses, schools, offices, public buildings, hospitals, underground facilities, and transportation. It's not life threatening, but it must be bad for your health in the long term.

Recently, in order to analyze the health effects of indoor air pollution more accurately, the amount of exposure to pollutants according to personal activities is measured during 24 hours a day. Research is also expanding and is a health threat due to bacteria, fungi and fine dust from high temperature and humidity.

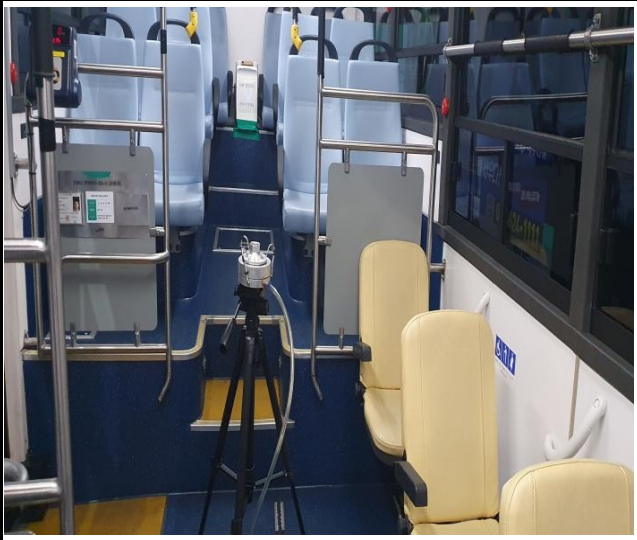
In modern society, where the importance of the environment is increasing, the research on indoor air quality is expanding, and in accordance with attention is being paid to the processing method. As a result, it is up to the wise consumer to decide which method they choose.

Wellis air purification has demonstrated the degradation of pollutants due to odor neutralization and strong chemical reactions. In addition, it has a strong bactericidal antimicrobial effect of pathogenic bacteria remaining in air conditioners and indoors.

Total Airborne bacteria environment survey measurement photo



Photos before and after the operation of the front seat device



Photos before and after operation of the center seat device



Photos before and after operation of the rear seat device

Total Airborne bacteria environmental diagnosis photo

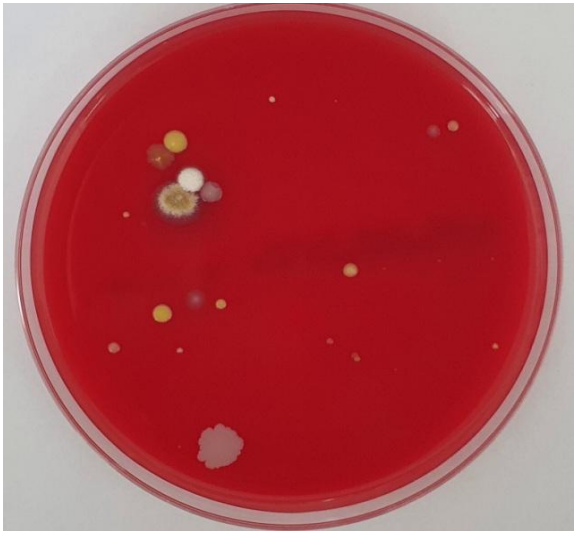
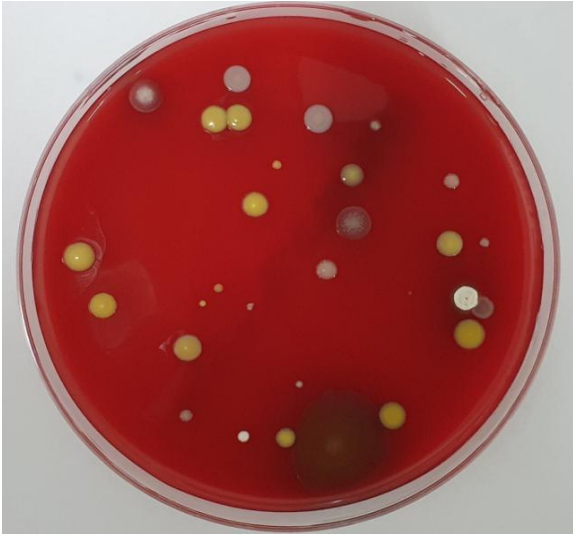


Photo of culture before and after sterilization of the front seat

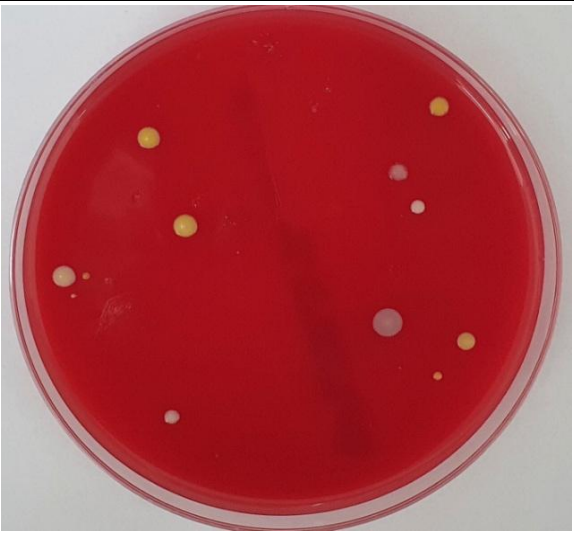
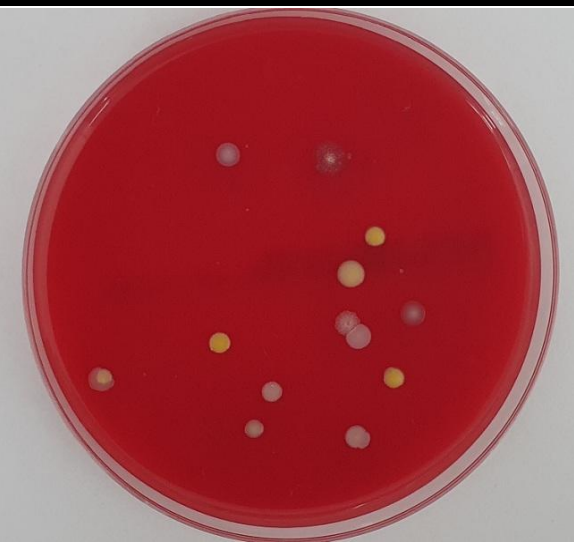


Photo of culture before and after sterilization of the middle seat



Photos of culture before and after sterilization of the rear seat



Indoor Air Quality Process Test Report

Testing Institution Info.	TEST ITEM	<i>TAB(Total Airborne Bacteria)</i>	TEST PURPOSE	wellis' air germ purifier pathogen-reducing efficacy test
	TEST DATE	Sept. 24. 25. 2020	RESEARCHER	sung Dae Kim
	TEST LOCATION	Bucheon Soshin Passenger (the inside of the bus)	Reception Date	Sept. 24. 2020
Testing Requester Info.	CORPORATE NAME	Wellis Co., Ltd.	Representative	Song Ho Woo
	Address	W801, SK V1 Center Bldg, 11, Dongsan-ro 41-gil, Yeungdeungoo-gu, Seoul, 07217, Korea		
PRODUCT NAME		<i>Wellis Air Disinfection Unit(WADU-02)</i>		

According to Article 6, Paragraph 1, Article 3 of the 「Act on Testing, Inspection, etc. of Environmental Sector」 .
Certificate of inspection is issued in accordance with environmental pollution process test standards.

<i>TAB : (Total Airborne Bacteria)</i>	Inspection Point	Before Sterilization	After Sterilization	Removal Efficiency%
<i>T A B</i>	<i>1(3회)</i>	<i>847.6</i>	<i>172.8</i>	<i>79.6</i>

판정: Sample Wells Air Disinfection Unit (WADU-02) Bacteria removal efficiency after operation.

Oct. 09. 2020

KSD Co., Ltd.
SUNG DAE Env'l Science R&D



Quality Director : In Hak, YEO

Technology Director : Sung Dea, KIM

Note: This test report is the result of the sample and sample name suggested by the sponsor, so it cannot be used for any other purpose.

This test report shall not be used as a commercial advertising or legal solution.