# King Brand Industrial Ltd.

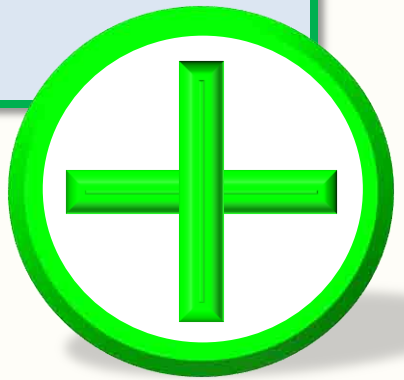
# Japan G2TAM Series

April 18, 2013

# The Mission of G2TAM

# Mission Statement

Nowadays we are living in a complex environment. Our goal is to create a clean, healthy and comfortable living environment. It is our mission to protect the Earth's environment And we believe our Earth will be friendly to those who love him. By using advanced scientific technology and with perfect combination of natural ingredients, we present you this unique **G2TAM** series.



# About Japan G2TAM







## Joint developer D.V.M. Koichi Otsuki

The director of the Research Institute of Advanced Technology at Kyoto Sangyo University and the Director of Bird Influenza Center. Guest Professor Koichi Otsuki completed a master's degree majoring in prevention and treatment of Veterinary Medicine at Hokkaido University.

Professor Otsuki has worked as a lecturer, assistant professor, then professor of the Faculty of Agriculture at Tottori University until 2006. During this period of time, he also was the professor of Yamaguchi University; the director of the Livestock Hospital at Tottori University, and the director of the Center of Research for Bird-Human Communicable Diseases, Faculty of Agriculture, Tottori University.

At present he is the specially-employed professor at Tottori University. He specializes in veterinary microbiology, in particular in infectious poultry diseases, including bird influenza. He is currently conducting the biological and immunological research of avian infectious bronchitis virus (IB) and epidemiological research for bird influenza. His recent interest is in zoonosis particularly in bird influenza.

He had won the scholarship from the Japanese Society of Veterinary Science and received a Research Fund from Japan Ministry of Society, Culture of Education, Sports, Science and Technology.

# Research & Development headquarter


**General Research Institute**

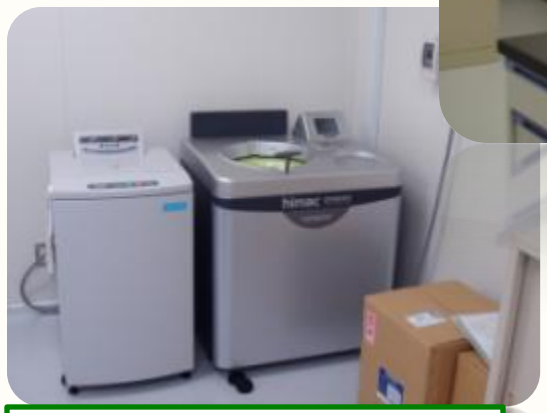
## P&Q laboratory (in KBIC)

# Kyoto Sangyo University (Influenza research center)

Laboratory

Laboratory

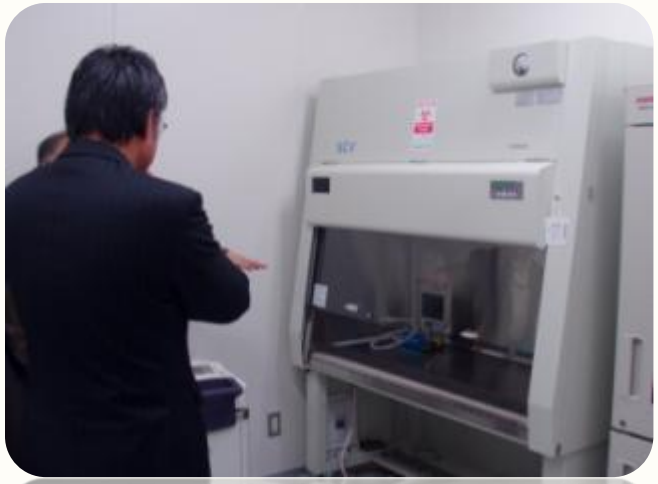
Sterilization device



Separator Device

Overall view

# Kyoto Sangyo University (Influenza research center)



Remote test device

Frozen storage machine －８０℃

Incubator

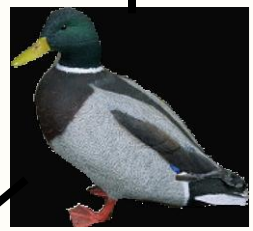
# Ecology of influenza virus

H1N1
H2N2
H3N2

H5N1
H7N9

H10N7

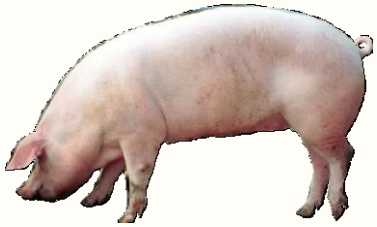
H7N7
H4N5
H4N6
H3N3



H5N1

H3N2

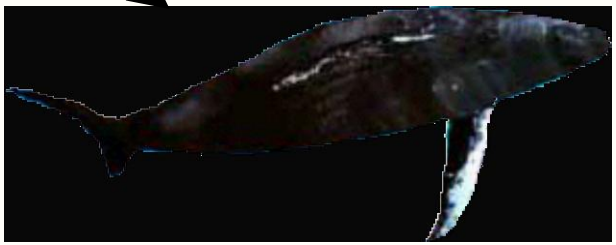
H1N1



H1N1
H1N2
H3N2

H3N8

H1N3
H13N2
H13N9



# Announcement of research achievement

**Year 2007 - Conference for “origin and the threat of influenza” & Announcement of research achievement and press release of G2TAM in influenza.**

**Press Release**

『 G2TAMα plus』
Inventor DVM Koichi Otsuki

Masui Yoshih A aru introduce
『G2TAMα plus』

# The G2TAM Press Release - 2007

Speech given by DVM Koichi Otsuki for the “Origin and the threat of avian influenza.

Introduction of 『 G2TAMα plus』 by Mr. Masui Yoshiharu

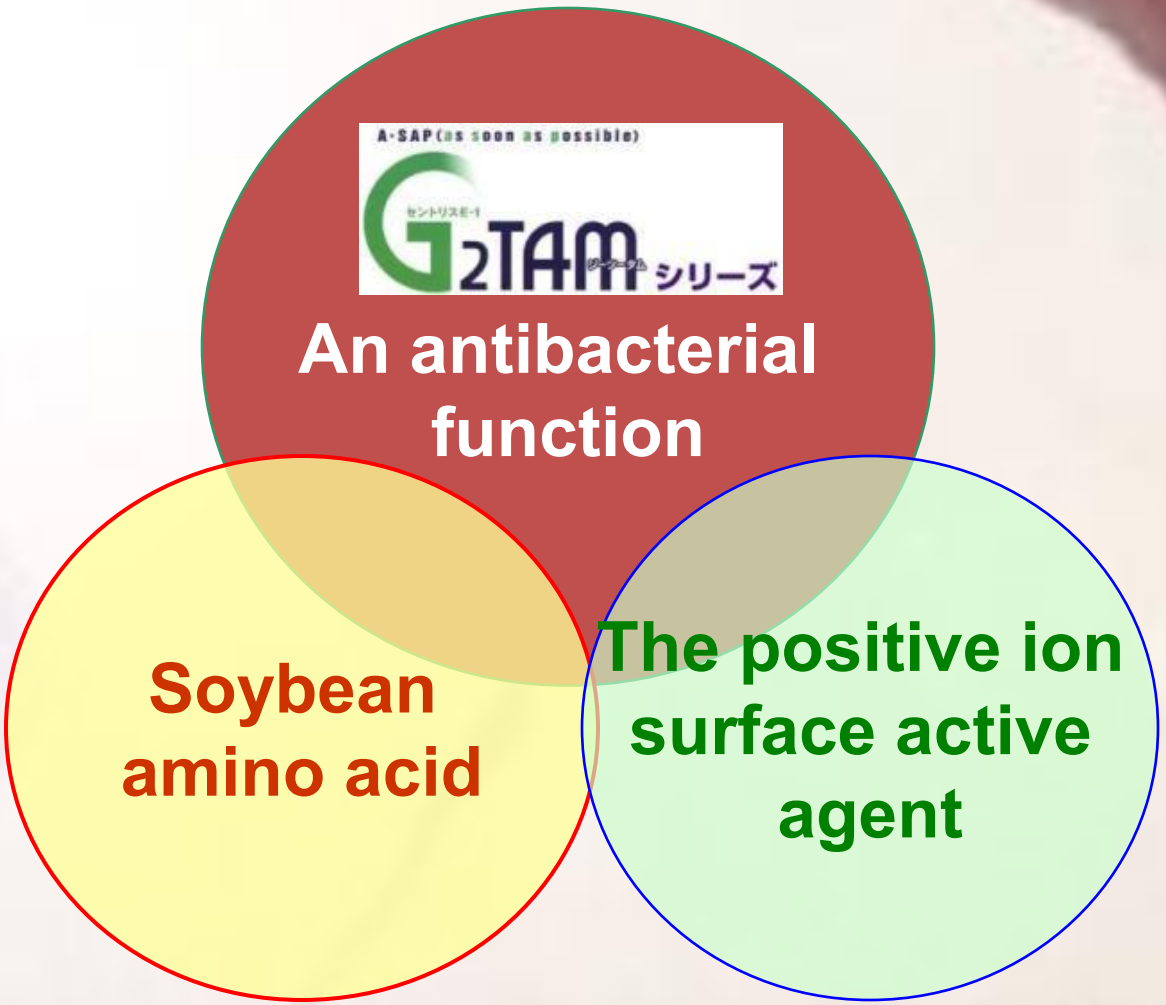
DVM Koichi Otsuki And participants


DVM Koichi Otsuki & Mr. Masui Yoshiharu introducing 『 G2TAMα plus』

Speech given by DVM Koichi Otsuki on the origin and the threat of avian flu

Joint research seminar members of The year Heisei 19

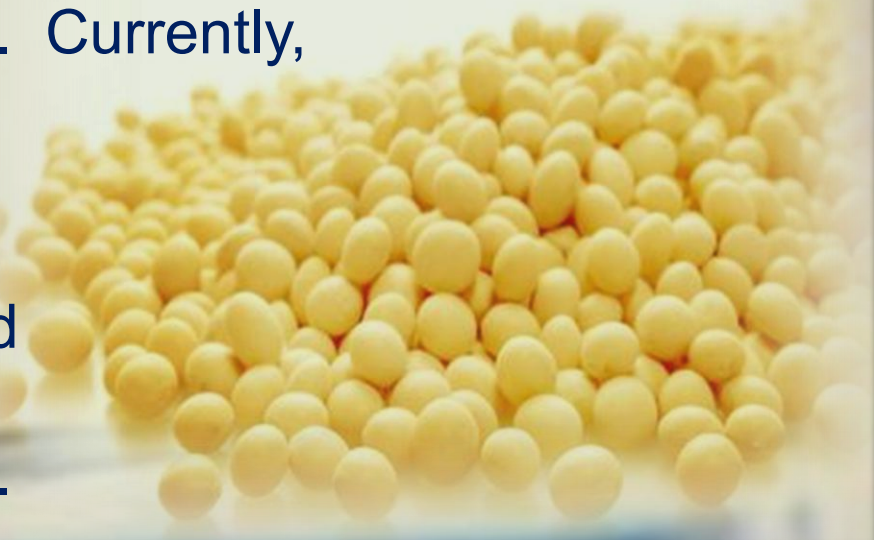
# An Antibacterial Function




” G2TAM” joint development by the Tottori University, Tottori Prefecture and the United States as an antimicrobial agent

# The main ingredients are natural soybean amino acid

**G2TAM** is the world first disinfectant that uses natural soy amino acids as the main ingredient. It has outstanding antibacterial and deodorizing abilities and is extremely reliable and safe to use. This unique technology has being patented and with the continuous research and accumulated know-how, the company's products have been improved and now reach a high degree of effectiveness and safety. Now the **G2TAMαPlus** series is widely used by various Japan government entities, big enterprises and also by individual. Currently, no other companies can replicate this technology and reach this level of antibacterial capability. This disinfectant is recommended To be used for infants, food businesses, households and pets.



# G2TAM Series


In order to increase the penetration of viruses, this product has 2.7% alcohol. But this product doesn't belong to the alcohol disinfectant.

**300ml aerosol**


**30ml mini aerosol**

**1000ml Refill Pack**


**Wet Non-Woven Pack**

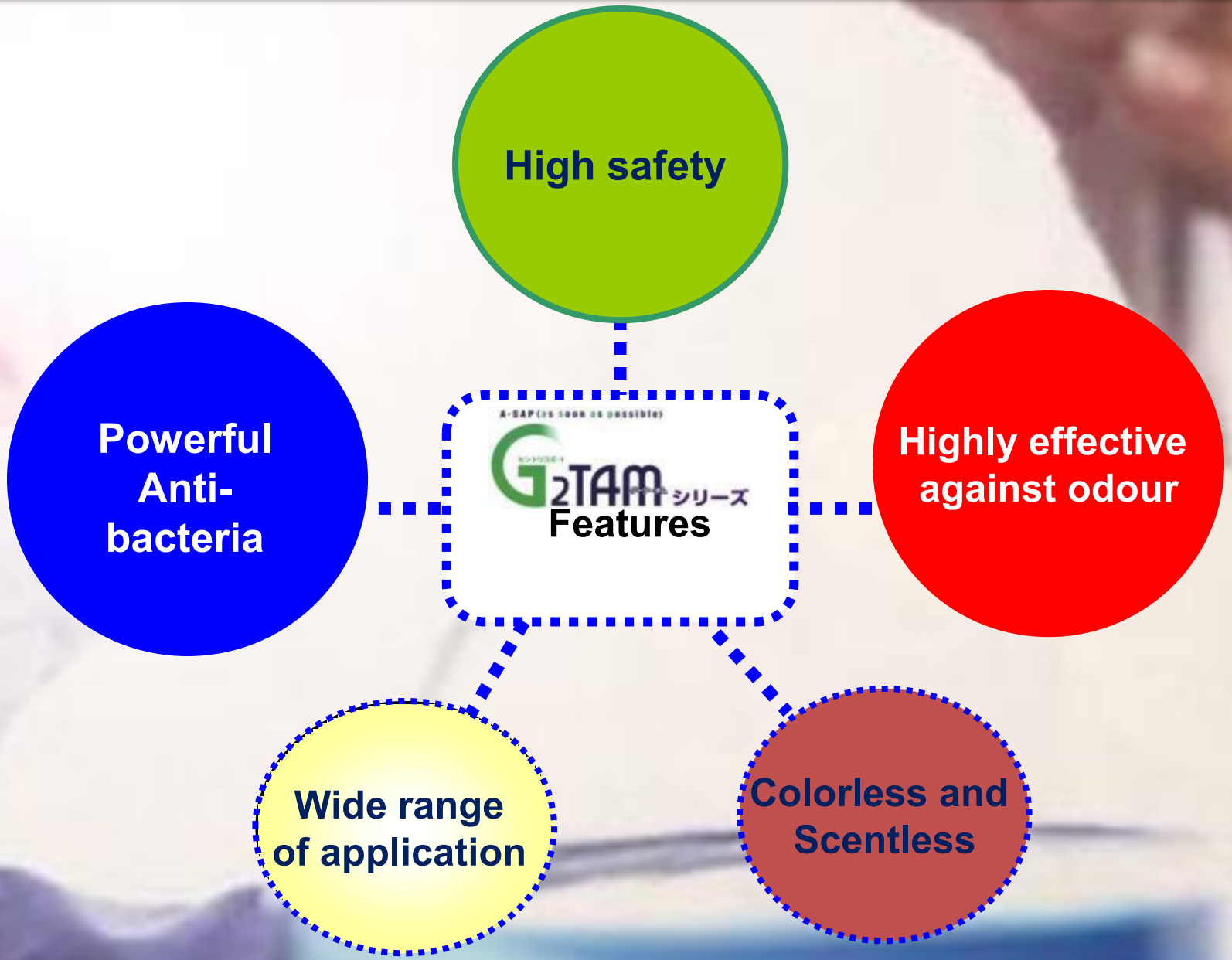
**The antibacterial and deodorizing series for clothing and personal belongings**


**500ml Soap Bottle**


**500ml Pet aerosol**

**Vomit Clean Up Kit**

# Features


High safety
Powerful Anti-bacteria
Highly effective against odour
Features
Wide range of application
Colorless and Scentless

# G2TAM series
# Anti-bacterial Application

G2TAM series
Wide range of Anti-bacterial Application
Including N7H9

Escherichia coli O-157

MRSA

Escherichia coli

Legionella

Salmonella

Pseudomonas aeruginosa

Trichophyton

Herpes

Mold

Candida albicans

Pneumonia bacillus

抗菌製品技術協議会
SIAA
有機(天然・合成)系
抗菌剤
JP0111031A0001J

# G2TAM Series Safety Test Data ( 1 )

| Bacteria name | minimum inhibitory concentration:MIC ( μ g/ml) | Dilution magnification | Test facility |
|---|---|---|---|
| Escherichia coli IFO3972 | 400 | 1 : 2,500 | Japan Food Research Laboratories |
| Staphylococcus aureus IFO 12732 | 12.5 | 1 : 80,000 | |
| Methicillin-resistant Staphylococcus aureus (MRSA) by Kyoto Biseibutu Kenkyusho | 50 | 1 : 20,000 | |
| Methicillin-resistant Staphylococcus aureus (MRSA NS455) | 50 | 1 : 20,000 | |
| Methicillin-resistant Staphylococcus aureus (MRSA NS462) | 25 | 1 : 40,000 | |
| Klebsiella pneumoniae IFO 13277 | 25 | 1 : 40,000 | |
| Escherichia coli O-157 H-7 (IID959) | 156 | 1 : 6,400 | Fujian Center For Disease Control & Prevention |
| Salmonella typhimurium | 156 | 1 : 5,400 | |
| Micrococcus luteus | 19.5 | 1 : 51,200 | |
| Bacillus cereus | 78 | 1 : 12,800 | |
| Pseudomonas aeruginosa ATCC27853 | 625 | 1 : 1,600 | |
| Bacillus subtilis | 625 | 1 : 1,600 | |
| Candida albicans ATCC10231 | 156 | 1 : 6,400 | |
| Listeria | 156 | 1 : 6,400 | |

# G2TAM Series Safety Test Data ( 2 )

| Bacteria name | At test start (cfu/ml) or comparison | Elapsed time | Results | Test facility |
|---|---|---|---|---|
| Feline calicivirus vaccine strain<br>Note: Substitute for Noro virus | Log $TCID_{50}$/ml 7.0 | After 5 minutes | <3.5 (undetected) | Japan Food Research Laboratories |
| SARS virus (BJ-01) | 5 x $10^6$ $TCID_{50}$ | After 5 minutes | Undetected | Chinese People's Liberation Army, Academy of Military Medical Science, Microbial Disease Research Center |
| Highly pathogenic bird flu (A/whistling swan/Shimane/499/83/(H5N3)) | $EID_{50}$/0.1ml $10^{7.8}$ | After 10 minutes | <1.5 (Undetected) | Center for Research into Bird-Human Communicable Diseases, Faculty of Agriculture, Tottori University |
| Influenza virus (flu/A/human/Wisconsin/15/30/ (H1N1) | 4.92E+O4CFU/ml | 7 days after sprayed G2TAMα-Plus on fabrics | 0.00E+00 Undetected | CHUBU UNIVERSITY, College of Life and Health Sciences |
| bovine rhinovirus<br>Note: Substitute for Picornaviridae Aphthovirus | index difference of log (anti-virus evaluation criteria 2.00 log10) | 60 mins | ≧2.75 | Rakuno Gakuen University, Faculty of Veterinary Medicine |
| Bacillus cereus | 1.0 x $10^4$ | After 1 minute | Undetected | Mitsui Norin Co. Ltd. |
| Bacillus subtilis (RIM0225014 ATCC9372) | 4.2 x $10^5$ | After 10 minutes | Undetected | Shimane Environment & Health Public Corporation |
| Staphylococcus aureus ATCC6538 | phenol coefficient | 10 mins | 39 | Quality Assurance Project (Microbiology) Faculty of Medical Technology, Mahidol University |
| Salmonella choleraesuis ATCC10708 | | | 39 | |
| Pseudomonas aeruginosa ATCC15442 | | | 9 | |
| Escherichia coli 0-157 H-7 (IID959) | 1.8 x $10^6$ | After 5 minutes | Undetected | Aichi Pharmaceutical Association |
| Methicillin Resistant Staphylococcus IID1677 (MRSA) | 1.1 x $10^6$ | After 5 minutes | Undetected | Aichi Pharmaceutical Association |
| Escherichia coli IFO3972 | 2.6 x $10^6$ | After 5 minutes | Undetected | Japan Food Research Laboratories |
| Pseudomonas aeruginosa IFO13257 | 1.0 x $10^8$ | After 5 minutes | Undetected | Japan Food Research Laboratories |
| Trichophyton mentagrophytes IFO6202 | 2.8 x $10^2$ | After 5 minutes | Undetected | Japan Food Research Laboratories |
| Legionella pneumophila | 8.3 x $10^5$ | After 5 minutes | Undetected | Japan Food Research Laboratories |
| Salmonella enteritidis IFO3313 | 1.0 x $10^6$ | After 5 minutes | Undetected | Japan Food Research Laboratories |
| Candida albicans, ATCC 10231 | 2.0 x $10^6$ | After 5 minutes | Undetected | Aichi Pharmaceutical Association |
| Acinetobacter baumannii | 1.4 x $10^6$ | After 1 minute | Undetected | Japan Food Research Laboratories |
| Mould (5 strains) JIS Z2911 (1992) | Growth area exceeded 1/3 of total area | After 28 days | Growth not detected | Japan Food Research Laboratories |

※Note:The red part is antibacterial test data of ≪ G2TAM α-Plus ≫ ※1: Maximum

PEACE AND CUES CO., LTD

# Comparison Chart G2TAM & Disinfectants

| | liquid disinfection | Clothing disinfection | House cleaning disinfectant | Hand washing disinfectant | patients emergency treatment disinfectant | Auto, airplane, train disinfectant spray | Environmental disinfection supplies |
|---|---|---|---|---|---|---|---|
| **In China market** | Dettol 、Walch 、Blue moon | Dettol 、Walch 、Blue moon | 84 disinfectant Walch, blue moon, Jin Baozhong, bleaching ater | Blue moon, Walch, safeguard | None for the special hospital System, | None | air conditioning cleaning agent, |
| **G2TAM** | 30ml、300ml Spray | None | 1000ml bag 4 liters of bottled | Liquid soap Wet wipes | Vomit safe handling package | 30ml、300ml Spray | 30ml、300ml Spray |
| **Selling point** | · The main ingredients of soybean amino acid, non-toxic harmless, better safety ； | | | | | | |
| **Advantage** | 1, The new generation of revolutionary products to replace other brands and to dominate the market;<br>2, The concept of environmental protection and safety: to establish the concept of safety and environmental friendly disinfection and to promote the theme of responsiveness to family and children. | | | | | | |
| **Disadvantages** | Tension in China-Japanese relations between the two governments, may cause the Nationalist resistance | | | | | | |

# G2TAMα-Plus 12 Characteristics

**Can apply to cloths etc, which can't use chlorine and alchoholic disinfectant.**

- Non-toxic even if inhaled
- Excellent effect against Norovirus and spores
- Lasting effect up to 7-days (even after dry)
- Non-toxic even if swallowed
- No stimulation on body
- Deodorant formaldehyde, high power deodorizer
- Will not cause an allergy
- No discoloration of cloths
- Will not induce resistant bacteria even if used frequently
- Rust on metals is less than ordinary water
- Even in the presence of organic matter, effect reduction rate is low
- Can store for more than 5 years

# The Stages Of Disinfectants

➢➢ ·**The first generation: 84 liquid disinfectant.**

In 1984, China "84 disinfectant" was born, as the first daily use disinfection liquid, it quickly known to every China family. Since the "84 disinfectant" is a kind of surface disinfection product, Chinese consumers understand this disinfection liquid mainly is to kill germs on the floor . Although the "84 disinfectant" had launched the clothing disinfection products, it is still the extension of the surface disinfection products. It's formula has great defects as it is corrosive to the clothing and also the skin of human body.

➢➢ **Second generation: sterilization of chlorine derivatives.**

By late 80's, Dettol from Hong Kong started to extend their market to Guangdong Province. They begin to educate the public on the usage of their products for body disinfection. In 2001, Walch launched China's first "washing disinfectant liquid" for clothing. And the ingredient of disinfectant for both Dettol and Walch are "chloride 2 methylphenol"

# G2TAM Series is the third generation disinfectant

## G2TAM series is the third generation of disinfectants

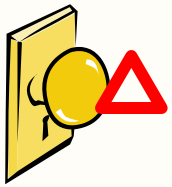
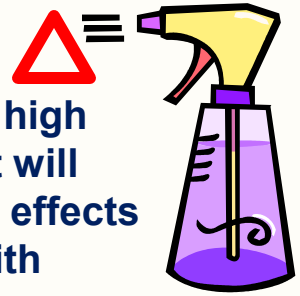
Up to now, there is no harmless and non-toxic disinfectants exist in the market. And the social reform in China also lead us to abuse antibiotics and land pollution and air pollution are increasingly getting serious. Sickness such as SARS, avian influenza, H1N1 and infectious new virus will constantly evolve. Disinfectant will become part of our life and this natural disinfectant has excellent effect against Norovirus and spores; harmless; causes no allergy; wouldn't induce resistant bacteria even if used frequently; doesn't cause discoloration on cloths; no stimulation on body; non-toxic even if swallowed; non-toxic even if inhaled etc., this outstanding product is what the market really needs.

# Comparison between G2TAM α PLUS with other disinfectants

| | G2TAMαPLUS | With Chlorine | With Alcohol |
|---|---|---|---|
| Usage | Use for clothing & personal belongings  Use for whole body, personal belongings, furniture, * leather product, kitchen wares, carpet, door handle, rail, toiletries, inside of cars, pet and personal hygiene. | Widely use for kitchen wares, bed sheets, and toilet  Mainly use for toiletries and kitchen wares. Also widely use for cleaning purpose and bleaching. | Cleaning hands & kitchen  Use for cleaning such as hands, tools, kitchen wares, and foods |

＊ may cause color deviation for some leather and particular materials, therefore we suggest to test at conceal part beforehand.

# Comparison between G2TAM α PLUS with other disinfectants

| | G2TAMαPLUS | With Chlorine | With Alcohol |
|---|---|---|---|
| Usage | Children's toys, inside of car & furniture    ・Clothing ・Inside the cars ・toys，furniture and personal belongings | Will cause color deviation or color fading on textile products.   Corrosion on metals or alloys. Need to clean with water after use this sort of disinfectant. Might cause adverse reaction when apply on sensitive skin  |  High incendiary with these high density alcohol disinfectant. Thus, have to use and store them with extra care. Due to the high volatility, it will reduce the effects if using with aerosol  |

## G2TAMα PLUS:

√Can be used at any place of which other disinfectants with alcohol or chlorine cannot be used.

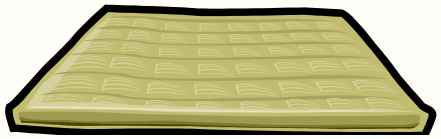
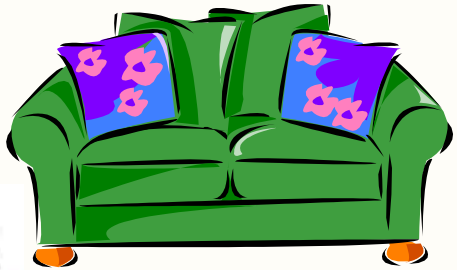
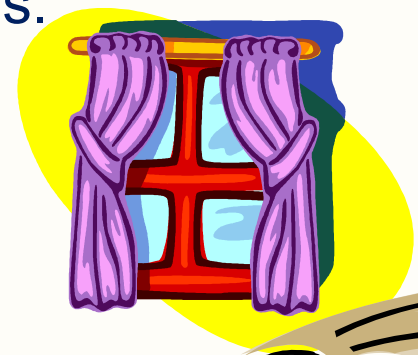
We suggest not to use our products together with these types of disinfectants.

√ No need to clean by water after using our products.

# Advantage of our G2TAMαPLUS

## Can be used when other disinfectants are unable to before!

- Clothing
- Sofa, carpets, beddings, curtain or any kind of home textiles or any leather products
- Children's toys and their belongings.



# G2TAM Series Users

**All G3TAM anti-bacterial virus products are approved by the Japanese government.**

※ The usage of antibacterial products has passed the SIAA standard requirement.

※ Awarded manufacturing method is also patented (Patent No. 3529059)

The cost that has been spent on lab testing for all the anti-bacteria products is already over $ 50 million Hong Kong dollars. At present, G2TAM series are widely used by Japan government entities and giant enterprise[illegible]s hospitals, fire stations, police stations, Japan [illegible] force, airports, airlines, public transport opera[illegible] industrial enterprises, social centers for the el[illegible] kindergartens and also by individuals.

# G2TAM Series Terminal Users

## Aerial port

Tottori Airport

## Public transportation

Transportation Bureau City of Nagoya
Tohnoh Tetsudou Co., Ltd.
Seino Kayoh Kanko Bus Co., Ltd.
Nagoya Railroad Co., Ltd.

## Expressway service area

East Nippon Expressway Co., Ltd. (NEXCO East)

## Japan Self-Defence Forces

JGSDF Camp Nerima, Tokyo
JMSFF Yokosuka Naval Base

## Pet-related facilities

Tinkerbell Co., Ltd.
IZUMIGO CO., LTD. Mie Pref.
Cat café (Neko no Maho)
Tashiro Veterinary Hosptal
DogCare Salon Sam:poo+
Dressage La-Chevauchee

## Airlines

All Nippon Airways Co., Ltd.
Skymark Airlines Inc.

## Hospital

Aichi Medical University Hospital
Fujita Health University Hospital
Shizuoka Cancer Center
Shonan Kamakura General Hospital
Yokohama Tsurugamine Hospital
Nagaoka Red Cross Hospital
Keiai Kai, Fukushima Pref.
Medical & Dental Co-operative for the Improvement of Medical Care, Osaka Pref.
National Cancer Center Hospital East, Chiba Pref.
Nagoya Medical Association
Gonohashi Clinic, Tokyo Pref.
Aichi Medical Information System
Japan Midwives Association, Tokyo Pref.
Japan Midwives Association, Iwate Branch
Sado General Hospital, Niigata Pref.
Niki Clinic, Hyogo Pref.
Go Clinic, Aichi Pref.
Inomori Neurosurgery, Kanagawa Pref.
Odashiro Clinic of internal medicine, Kagoshima Pref.
Narukawa Dental Cllinic, Mie Pref.
Ishioka Clinic of otolaryngology, Aichi Pref.
Oda Clinic of internal medicine, Aichi Pref.
Tatsuno Orthodontic Office, Hyogo Pref.

# G2TAM Series Terminal Users

## Nursing Home

Tama Nursing Center, Aichi Pref.
Social Welfare Corporation Asunaraen, Nara Pref.
Yamanashi Hospice, Yamanashi Pref.
Social Welfare Corporation Fusuikai, Shizuoka Pref.

Houjukai Yawataen (Intensive-care old people's home), Chiba Pref.
Social Welfare Shoumei Fukusikai, Aichi Pref.
Group Home Fukujusou, Fukuoka Pref.

Intensive-care old people's home Yasuragino-sono, Osaka Pref.

Yokohama City Welfare Service Association, Kanagawa Pref.

Koyama Healthcare Group Atami Izumino Sato, Shizuoka Pref.

## Fire Department & Police

Tokyo Fire Department

Metropolitan Police Department, Tokyo
Kyoto City Fire Department
Nagoya City Fire Department
Hiroshima City Fire Department

Toyohashi City Fire Department, Aichi Pref.

Koriyama Fire Department, Fukushima Pref.

Aichi Police Kasugai Office, Aichi Pref.

Fire Department of Sayo=cho, Hyogo Pref.

Fire Department of Sukumo, Kochi Pref.

Fire Department of Kaga-City, Ishikawa Pref.

## Hotel

Washington Hotel Corporation, Aichi Pref.
The Ritz-Carlton, Osaka
Kagaya, Ishikawa Pref.
Kaiei Ryokans, Aichi Pref.

Hotel Avalorm Kino-kuni, Wakayama Pref.
Happo-En, Tokyo Pref.
Genji-koh, Aichi Pref.
Hotel Sunroute Umeda, Osaka Pref.
Business Hotel Yoshino, Osaka Pref.
Square Kojimachi, Tokyo Pref.

## Nursery School, Kindergarten

Ishiyama Kindergarten, Gifu Pref.
Iwata Municipal Kindergartens, Shizuoka Pref.

Yoshino Nursery School, Chiba Pref.
Mikuni Kindergarten, Chiba Pref.
Toyoshiki Kindergarten, Chiba Pref.

Kodomonokuni Kindergarten, Miyagi Pref.

Hamamatsu Municipal Kindergartens & Nursery Schools, Shizuoka Pref.

Kashiwa Sakura Kindergarten, Chiba Pref.

Ouji Rinpokan Nursery School, Tokyo Pref.

## Restaurant・canteen

Ristorante Hamasaki, Tokyo Pref.

# G2TAM Series Terminal Users

## School. college

Tottori Yuniversity
Aichi Medical University
Fujita Health University
Meiji Gakuin University
Aoyama Gakuin University
Ochanomizu University
Tokyo University of Technology
Shukutoku University
Special schools of Saitama
Yokkaichi University, Mie Pref.
Niigata Technical High School, Niigata Pref.
Joshibi High School of Art and Design, Tokyo Pref.
Oita Maizuru High School, Oita Pref.
Asake High School, Mie Pref.
Soka Gakuen, Tokyo Pref.
Edogawa Girls' Junior High School & Senior High School, Tokyo Pref.
Kyoto University, Kyoto Pref.
Teikyo University, Tokyo Pref.
Ritsumeikan University, Kyoto Pref.
Bunkyo Gakuin University, Tokyo Pref.
Tottori University of Environmental Studies, Tottori Pref.
Reitaku University, Chiba Pref.
Fushimi Technical High School, Kyoto Pref.
Hotoku Gakuen, Hyogo Pref.
Kousen High School, Shiga Pref.
Taira Technical High School, Fukushima Pref.
Akita Prefectural Akita Technical High School, Akita Pref.
Onomichi Senior High School, Hiroshima Pref.
Shizuoka Seiko Gakuin, Shizuoka Pref.
Nara Prefectural Gose Industrial High School, Nara Pref.
Omuta High School, Fukuoka Pref.

## Public place

Universal Studios Japan, USJ, Osaka Pref.
Japan Arts Council, Tokyo Pref.
ATM Japan Ltd., Tokyo Pref.
The Mie Bank, Ltd. Mie Pref.
Orico Business & Communications, Aichi Pref.
Glory Ltd., Aichi Pref.
Tipness Fitness Club, Tokyo Pref.
The Toyota Group, Aichi Pref.
Aisin Seiki Co., Ltd. Aichi Pref.
Tenrikyo (Tenriism), Nara Pref.
JA Zennoh Fukuren, Fukuoka Pref.
Honda Motor Co., Ltd. Honda R&D Co., Ltd. Saitama Pref.
Paramita Museum, Mie Pref.
Mitsubishi UFJ Nicos Co., Ltd., Tokyo Pref.
Ace Service Co., Ltd. Tokyo Pref.
危機管理教育研究所, Kanagawa Pref.
Nuclear Engineering, Ltd., Osaka Pref.
Taiheiyo Cement Corporation, Tokyo Pref.
Nippon Telegraph and Telephone Corporation, Tokyo Pref.
Mori Trust Co., Ltd., Tokyo Pref.

## Food Industries

KANEYO-YAMANOBE
SUISAN CO., LTD.
KOIWAI FARM LTD.
Yamazaki Baking Co., Ltd.
ART COFFEE Co., Ltd.
DONQ Co., Ltd.

# Fire Departments & Police Stations

"**G2TAMαPlus**" is being used for all the equipments and fixtures to protect against avian influenza virus

# Japan Self-Defense Force

"**G2TAMαPlus**" is being used at outdoor bathing equipments for sterilization and deodorization






# Public Transport Lines Facilities

"**G2TAMαPlus**" is being used at all the public traffic facilities equipment for disinfection

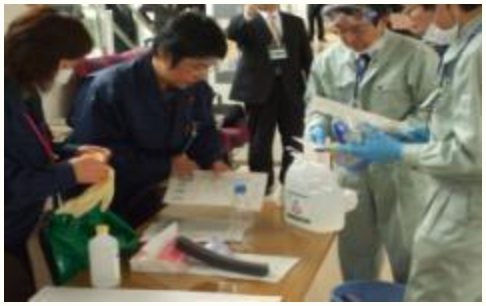







# Airports

"**G2TAMαPlus**" is used for all the equipment and fixture against avian influenza virus disinfection . The airport used to use chlorine bleach but it would make the devices changed color and it will never happen with " **G2TAMαPlus** "




# Airlines

"All Nippon Airways Co., Ltd.," one of the leading airlines in Japan, has adopted " **G2TAM**“ series for anti-bacteria, anti-mold and anti-odor purpose for all its airplanes.

Due to the fact that high concentrated alcohol was prohibited to carry in flights nowadays. They selected **G2TAM** Series due to its safety property according to the new safety requirement.

"Skymark Airline Inc." also adopts " **G2TAM**" Series for all their airplanes.

# Aircrafts

**G2TAMαPlus** is being used at airplanes for antibacterial and deodorization.

# Highway Stations

"**G2TAMαPlus**" is being used for antibacterial, anti-mold, deodorizing and cleaning purposes.


# Hospitals and Clinics

" G2TAMαPlus " is being used for wards & nursing rooms and toilet for disinfectant, cleaning and deodorization.


# Nursing Home Facilities

" **G2TAM** " Series is used for nursing home facilities, kitchen and public places for cleaning and sterilization







# Hotels

Use "**G2TAM**" Series for table cleaning, bed and room cleaning, deodorization, sterilization

# Food Processing Facilities

"**G2TAMαPlus**" is being used for cleaning machinery at factories etc..  Also is used for sterilization and shoe disinfection on workers.




# Kindergartens & Schools

"**G2TAM**" Series is being used at areas that children can reach for anti-infection and deodorization.








# Pets Areas & Cars

"**G2TAM**" Series is used at pets living areas and car for disinfection. As well, it can be use for air sterilization.



# Offices

“ G2TAMαPlus” is being used in offices for disinfection











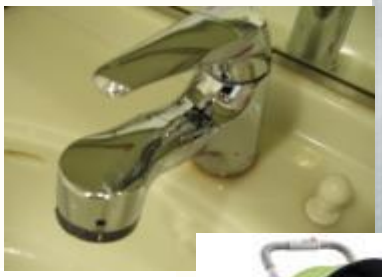

# Residential Areas

"**G2TAM**" is used at residential areas and personal belongings for disinfection and deodorization。















# G2TAM Deodorization

Amino Acid destroys odor

Positive ion surface-active agent

Non-ion surface-active agent

Both the Amphoteric ion surface-active agent

Natural soybean amino acid

Decomposition

Decomposition

methanal

methanal

ammonia

hydrogen sulfide

trimethylamine

methyl mercaptan

isovaleric

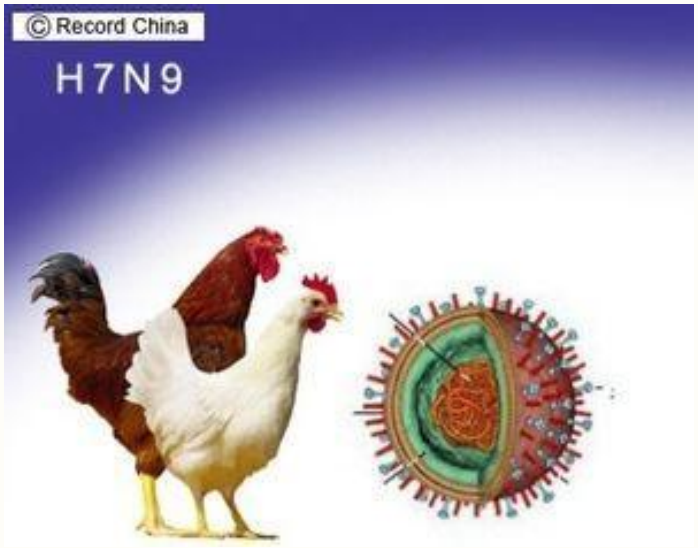
acetaldehyde

# Spread of H7N9 Bird Flu (Avian Influenza)

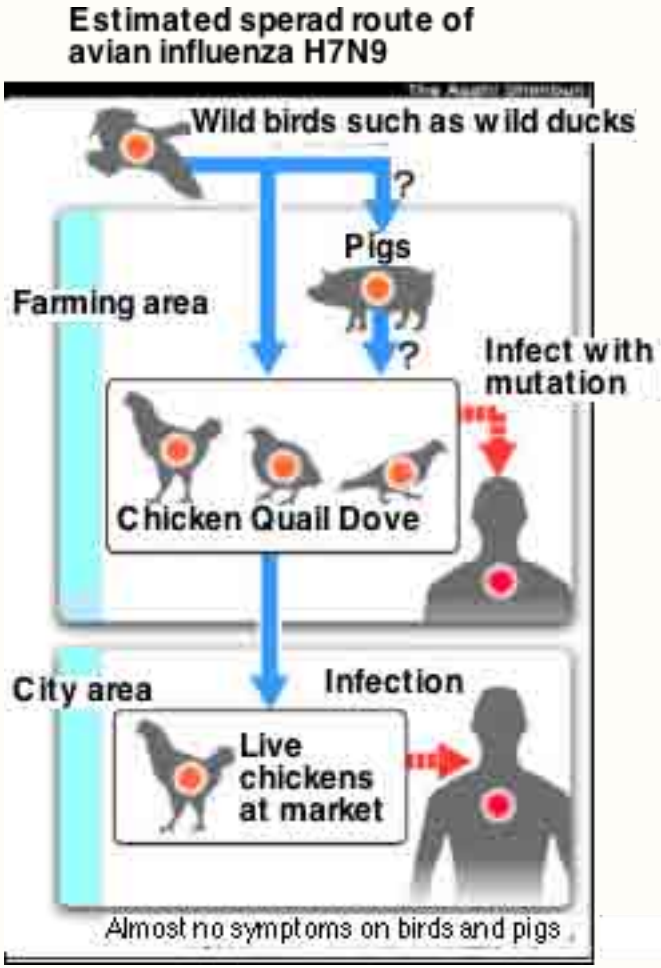
On Mar 31, 2013, The Health Department of China and Shanghai reported that three cases of human infection of type H7N9 bird flu in Shanghai and Anhui province and two died. As of Apr 15, a total 60 people are infected with 13 deaths. The rate of death is more than 20%.

It is quite difficult to detect, since the symptoms does not appear to bids and pigs. Due to its severe symptoms and easily infection to human, it is a clear threat now.

It is of major concern that the virus is mutated to cause infection to spread from human to human.




- An image of H7N9 Avian Influenza virus



# How to use G2TAMα-Plus to prevent infection in public areas?
# DVM Koichi Otsuki and CEO Masui yoshiharu at press conference

**G2TAMαプラスは、鳥インフルエンザ研究の第一人者　大槻公一名譽教授*
との共同研究により誕生しました**　*京都産業大學鳥インフルエンザ研究センター長兼鳥取大學農學部特認教授

報導機關を招いての研究発表風景

名古屋のメーカー開発の抗菌剤

## 鳥インフルに有効

### 鳥大グループが実証


抗菌剤の効果を説明する大槻特認教授（左）と増井社長＝30日、鳥取市の鳥取大学

名古屋市の化学製品メーカーが開発した抗菌剤について、鳥取大学農学部付属鳥由来人獣共通感染症疫学研究センターの大槻公一特任教授らによる研究グループは三十日、鳥インフルエンザウイルスの抗菌に効果があることを証明したと発表した。安全性の高い新たな抗菌剤としての利用が期待される。

鳥インフルエンザウイルスへの抗菌力が証明されたのは「ピースアンドキューズ」（名古屋市、増井吉晴社長）が開発した抗菌剤「G2TAMα（ジータム・アルファ）プラス」。鳥取県の助成を受け、二〇〇六年から二年間、大槻特任教授らと共同研究を行った。

抗ウイルス試験では「G2TAM」（第四級アンモニウム塩）を希釈し、特殊浸透液（大豆から抽出したアミノ酸）を加えて、強毒化が確認されている弱毒性の鳥インフルエンザH5N3に接触。その結果、三百倍に希釈して9％の特殊浸透液を加えたG2TAMで、生き残ったウイルスはなかった。

大槻特任教授によると、鳥インフルエンザの抗菌には消石灰が使われていたが、処理者が結膜炎や皮膚炎を発症するケースが問題になっていたという。G2TAMαプラスは人体や環境への影響がほとんどないことから、大槻特任教授は「消石灰と同等以上の効果があって安全性が高い」と評価している。

日常的な衛生対策商品として、同社では昨年十一月から全国のインターネットグループで販売している。

日本経済新聞（2008年5月31日）

抗菌・消臭剤「G２TAMαプラス」

鳥インフルエンザウイルスを死滅

鳥大教授ら発表


「G2TAMαプラス」をPRする増井吉晴社長（鳥取大で）

鳥取大農学部の大槻公一名誉教授と化学製品メーカー「ピースアンドキューズ」（名古屋市、増井吉晴社長）は30日、同社が製造している抗菌・消臭剤「G2TAMαプラス」に鳥インフルエンザウイルスを死滅させる抗菌効果があることが実証されたと発表した。大豆から抽出したアミノ酸を主成分としており、大槻教授は「人にも環境にも優しい」と太鼓判を押している。

「G2TAMαプラス」は衣類やカーペットなど身の回りに振りかけて使う。昨年11月から全国のイオングループ約500店舗で販売している。250ml入りスプレーが980円。

同社は医薬品の抗菌力を実証する研究に06年度から5カ年の財政・ベンチャー発掘支援事業として300万円を助成。大槻教授の2年にわたる研究で鳥インフルエンザウイルスを死滅させる効果があることが確認されたという。

大槻教授と同社は安全性についても強調する。主成分の大豆アミノ酸は人体に無害で、増井社長は「従来の塩素系消毒剤と違って口に入れても大丈夫」と話す。

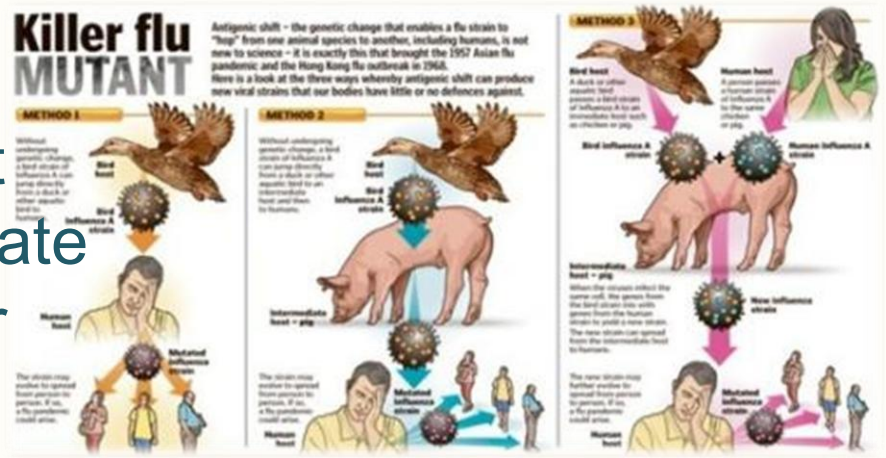
課題は高いコスト。養鶏場で感染が生じた際には多量の抗菌剤を散布することになるが、通常使われる消石灰とは価格面では比較にならず、畜産業界での利用のめどは立っていない。同社は「まずは家庭で鳥インフルエンザの感染経路を絶つのに役立ててほしい」と話している。【宇多川はるか】

毎日新聞（2008年5月31日）

# H7N9 Avian Flu

## H7N9 bird flu

Recently,H7N9 avian flu spreads across China, and more and more people are worried about the onslaught of the disease. If we seize this moment to promote G2TAM - the latest generation of products, and emphasizes that it kills H7N9, NORO, SARS, Bacillus subtilis, highly pathogenic avian influenza, Escherichia coli, oxacillin-resistant Staphylococcus, Pseudomonas aeruginosa, Trichophyton fungus, Legionella , pneumophila, salmonella enteritidis, Candida and fungal viruses. This is a great opportunity to greatly accelerate the promotion and sale of our products!



# How to protect workplace from infection?

## ◆Do not bring the source of infection into the workplace !

Spray **G2TAMαPlus** from head to toes.

Do not forget to remove viruses from your cloths and belongings.

Do you know viruses can attach to your cloths, belongings and hair?

It is reported that viruses can survive up to 12 hours on clothes.

Remove viruses completely when you return to workplace, it is very important to protect you and your workplace from the infection.

The chlorine disinfectant may cause discoloration of cloths. It can cause corrosion and rust of metals. The alcohol spray is scattered and its effectiveness will drop. Alcohol product is restricted by the fire law. **G2TAMαPlus** can be used safely for your whole body and cloths without those drawbacks while protects you from the danger around you.

1. Spray on your cloths

Your cloths might be highly contaminated by the viruses. Spray **G2TAMαPlus** on your cloths thoroughly.

2. Spray **G2TAMαPlus** on your belongings.

Spray **G2TAMαPlus** on your bags and other belongings several times.

3. Apply to used masks, too.

Masks may contain large amount of the source of infection.

# How to protect workplace from infection?

## ◆Remove viruses around you

Wipe everything around you by **G2TAMαPlus**.

The objects which general public touch, such as doorknobs, light switches, desks, chairs, keyboards and mouse of public places, handrails, water taps, toilet seats and doors are of high risk. In cleaning these objects by **G2TAMαPlus**, you can prevent infection.

The basic procedure of applying disinfectant is to wipe twice by the paper towels moisten by **G2TAMαPlus**. To prevent spreading of viruses, please do not spray **G2TAMαPlus** to the object directly. Use masks and disposable gloves. After disinfection, wash your hands thoroughly.

**G2TAMαPlus** wet tissue" is convenient for easy disinfection.

"G2TAMαPlus wet tissue" can be carried in to the aircraft.


◆"G2TAMαPlus wet tissue"

# How to protect workplace from infection?
# ◆ wear masks!

## Wearing masks is quite effective to prevent infection.

(1) Wearing masks has moisturizing and thermal effect, to prevent mouth and nose dry and help maintaining normal function of cilia and mucous membranes.

(2) It can prevent inhaling droplets that viruses may be attached to.

(3) Protect others from the splash of your cough. (Cough etiquette)

(4) To prevent yourself touching your nose and mouth.

Wearing masks are highly recommended by the doctors to prevent infection disease. Use non-woven surgical masks, since gauze masks does not function well.

**G2TAMαPlus: its function lasts up to 7 days**

Spray **G2TAMαPlus** on masks (both inside and outside) several time can inactivate viruses. Even when **G2TAMαPlus** is dried up, it can keep its function up to 7 days. Spray **G2TAMαPlus** on masks before disposing can reduce the risk of infection. In addition, **G2TAMαPlus** has strong function of deodorizing, your masks make you feel comfortable.


◆G2TAMα-Plus 30ml
mini spray

# How to protect workplace from infection?
# ◆wash your hands thoroughly.

Don't you finish washing hands in several seconds ? That method is not enough to prevent infection, since the source of infection can't be washed away.

To remove viruses thoroughly, follow the below steps.

【正しい手洗い方法】

Proper way to wash hands

Whip soaps and spread on hands

1. wash palms
2. wash fingertips and nails' gap.
3. wash the back of hands by stretching them.
4. wash crotch of fingers.
5. wash thumbs with twisting them on palm.
6. wash wrists.
7. remove water by clean towels or paper towels.
8. at the end, spray disinfectant and rub into the skin.

# How to protect workplace from infection?
# ◆Cough etiquette

## 【 Cough etiquette 】

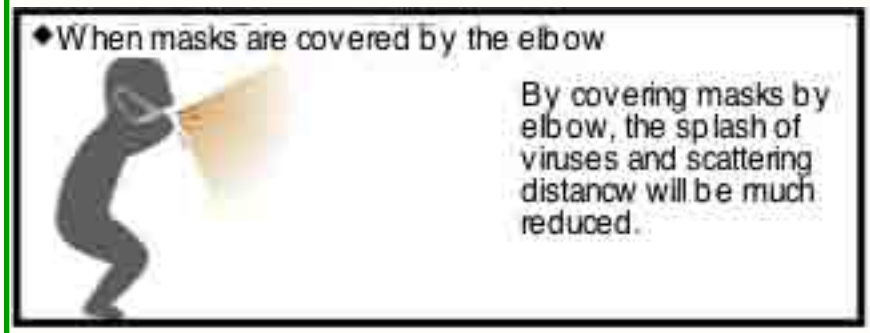
Cough etiquette is recommended by the Ministry of Health, Labour and Welfare for preventing infection when you cough or sneeze.

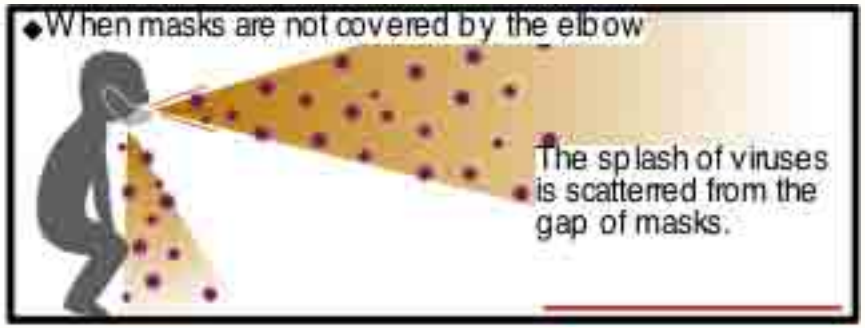
(1) Wear masks when you have symptoms of cough and sneeze, to prevent splash around. It is even better to cover your mouth by inside of your elbow (see below). If you are not wearing masks, cover your mouth and nose by tissues and turn your face away from other people.

(2) Dispose used masks to covered garbage can immediately, to prevent other people from touching them.

(3) after coughing, wash hands thoroughly.

※ Ask coughing or sneezing people wear masks.



ジーツータム・アルファ・プラス

# G2TAMαPLUS

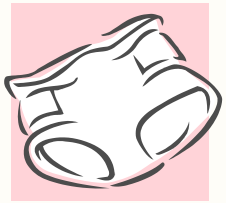
# Products Data

## *Products Menu*

# G2TAM Series Final Users

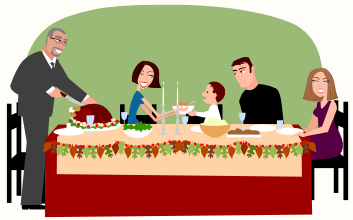
Kitchens · kitchen sink, sink strainer and cooking utensils. The cooking tools after use, wipe with water.

Hospital & Nursing Equipments

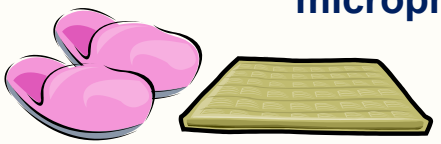


Apply on those used diapers

K T V room and microphone



The seating at cinemas, hospital, waiting room and hall.



Slippers and mats especially in public areas.

Restaurants, Canteens and offices

Taxi, bus and tram for antibacterial cleaning

Salons · nail salons · beauty salons · massage shops for bed · chairs · tables

**Not only apply for influenza countermeasure but also serve at:**

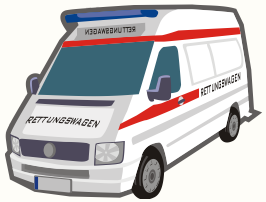
- ✓ Earthquakes & disasters areas: for hygiene strategies
- ✓restaurant / canteens: for food poisoning prevention
- ✓Clinic & hospital: infection prevention & deodorizing solutions
- ✓Recreational facilities for removal of bacteria
- ✓ Spa and a beauty salon where high hygiene standard required
- ✓Pet stores for anti-bacteria and deodorizing ...

**Use at public areas for anti-bacteria and deodorizing**

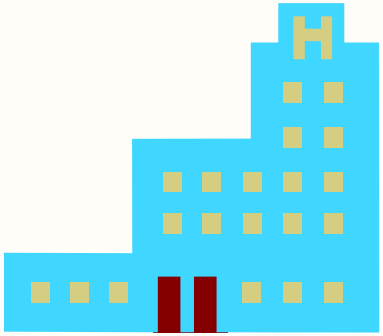
# G2TAM Series Final Users

Use in clinic as inflection & deodorize countermeasure

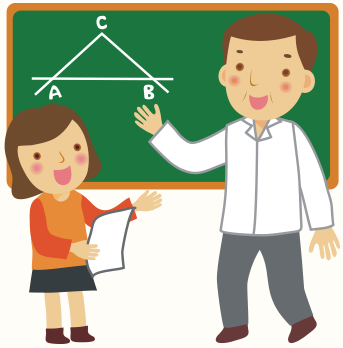
Ambulance & Fire Department




Fire department use it as detergent to prevent infection.

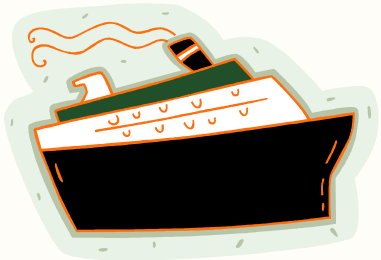


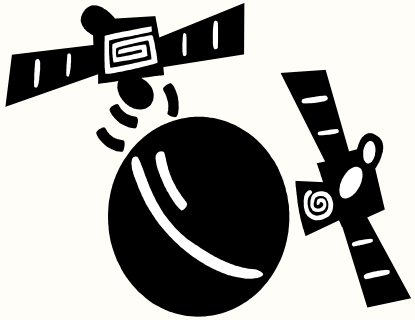

Use at hospital as prevent inflection countermeasure



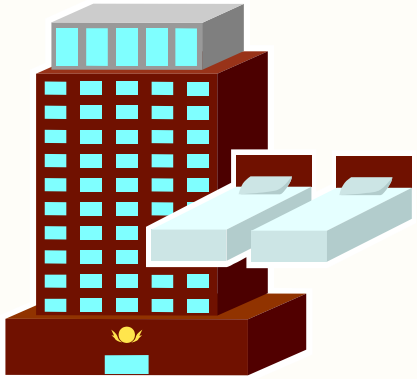

Kindergartens and schools disinfection countermeasure

Antarctic observation ship "Shirase" infection control





JAXA aerospace research and Development Center (used for visitor's facilities disinfecting)



Use at hotel for anti-bacteria and deodorizing

**G2TAM has been used At【PROFESSIONAL】entities**

# Personal Hygiene

**Whenever there is breakout of deadly disease, G2TAMα-Plus is the most reliable product s for disinfecting.**


Spray at underwear for disinfecting & deodorizing.


Use for clothing, shoes and socks


Used for mask, towel and beddings

Wipe with Water afterward


Spray at kid's clothing, diaper and toys.

Excrement deodorization and sterilization

Wipe with water before spray.

Spray on toilets, door locks, armrests for disinfection and deodorization

Wrap after spray


Spray on furniture to prevent infection; spray on garbage for anti-bacterial and deodorizing purposes

# Can Apply Directly To Your ody

**This product is not limited to use for hands but entire body including hairs and body.**

Apply on the cosmetic cotton, can use as makeup remover. Same function as toner.

Use after go to toilet


Apply on the towel, wipe the whole body including the private parts directly

Use it to clean your hair directly. No need to use water to wash afterward

Use this product after shaved to sterilize the skin and for moisturizing.

While changing diapers for baby, use it to clean the body for moisturizing and bactericidal efficacy

Clean your hands with this product before eating or after go to toilet. .

◆how to use the pump

Will get 1 ml of disinfectant for each press on the pump.

Press one or two times direct to your hand or towel, then clean the part that you want to clean at your body.

# G2TAMαPLUS Q&A

## Q：Why this product is being used in many public areas?

A：All our products get the anti-bacterial and safety test certificates.
・The R&D is joint research with Tottori University

⇒ On the joint study, there is a description of composition theory which validates the **G2TAMαPLUS** liquid usage.
Customers realized that there are a lot of areas that chlorine-containing and alcohol-containing disinfectants cannot be used while **G2TAMαPLUS** can be applied.

⇒At the same time when you are using other disinfectants, you can also use **G2TAMαPLUS** for those areas that other disinfectants cannot manage。

## Q：Why there are many final users find G2TAMαPLUS through internet?

A： Many consumers expect our products "reliable · safe · highly effective"
⇒ Due to the positive feedback of customers or staffs, many clients find **G2TAMαPLUS** via internet when they are seeking for reliable and trustworthy products.
⇒ Many users are getting customers "value added service" to use our products.
(Example: remedial schools, middle schools, high schools and restaurants.)

# G2TAMαPLUS Q&A

**Q: Customers question about why they need to use G2TAMαPLUS if they already adopt other disinfectant. They want to know the reasons why they must change to G2TAMαPLUS**

A. Use **G2TAMαPLUS** to prevent influenza and Roe viruses from external "infections", it can reduce the economic losses of the enterprises & shops. ⇒ Companies strictly enforce their staffs to wash hands and clean the clothing to ensure complete virus countermeasures. There is also need to look into the possibility of the spread of infection by a third party.

→ Business can be shut down due to employees are unable to come to work. Customers may leave due to rumors.....

⇒ **G2TAMαPLUS** is a kind of product that will never have problem, this implies that we can use this disinfectant at anywhere

*** Wipe with water before spray G2TAMαPLUS, this will further enhance the antiseptic cleanliness.**

# King Brand Industrial Ltd.

Thank you for watching