MAKE SAFETY PERFECT 以安全为完善

大特科露全球杀菌品牌

目录

01.公司概况

公司名称	NON Corporation
行业	二氧化氯 杀菌剂 制造业
办公室	公司 : 大田广域市 儒城区 官坪洞 第一工厂 : 忠南 锦山君 中部大学 产业协力馆 第二工厂 : 大田广域市 儒城区官坪洞
联系方式	+82-42-823-7820
网站	http://drclo.com

02.公司历程

2014
申请国际专利

2015
获得消毒剂 / 除臭剂认证

2016
设立NON 公司
向现代 / 起亚企业供应产品

2017
注册美国FDA

2018
入驻 E-Mart Everyday
入驻乐天超市 / Kim’s Club
日本保健 & 微生物研究所杀菌力测试完毕

2019
ICONIX 伙伴业务合作
Universal studio的小黄人伙伴业务合作
ISO 9001：2015年（质量管理系统认证）获得

2020
LineFriends 伙伴业务合作
入驻ATOMY AZAmall / 免税店/百货商店
KTL. KTR. ISO Standard 检查完毕

03.多一合保护产品

便利性

1

不需要电

2

没有味儿

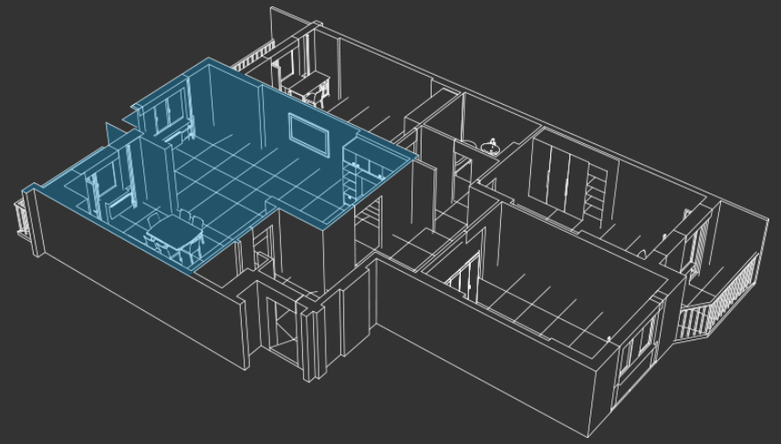
3

不用擦拭或者喷洒

03.多一合保护产品

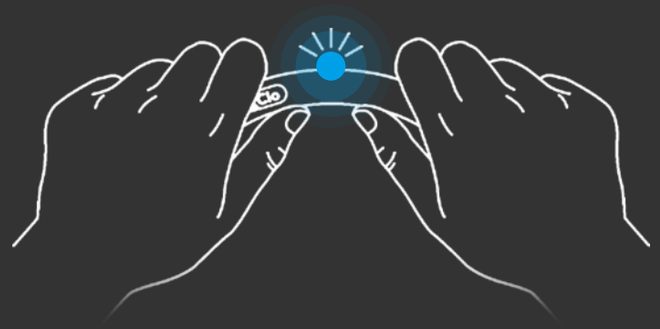
大特科露的安全区域

1支 = 约10M²



03.多一合保护产品

使用方法及使用期间



简单便利的使用方法

最长维持6~8周左右

- 根据产品种类和使用环境会不同
- 特别是高温国家可能持续4周左右。
  冰箱里大约七至八周/汽车大约四周
  家庭用, 宠物, 洗手间约4-6周
- 你可以用指示色(白色)检查产品的寿命。
  虽然产品变成了白色, 但这并不意味着使用生命的终结,
  就是二氧化氯的浓度降低

03.多一合保护产品

产品功能

除去有害气体

有害气体减低测试	KTL	20-011440-01-3
	KTL	20-011440-02-2

杀菌

杀菌测试报告书	KTR	TBK-000043
危害产品检验(消毒剂)	KCL	C-B01B-K00010001-A151
浮游细菌降低实验	KTL	20-011440-01-1, 02-1
浮游细菌 降低实验	KCL	CT20-025935K
		36K, 37K, 38K, 39K

除霉

除霉测试	KCL	CT20-025940K

除臭

除臭测试报告书	KCL	CT17-057527
危害产品检验 （除臭剂）	KCL	C-A10B-K00050001

03.多一合保护产品

大特科露使用效果

· 根据使用环境，结果可能会不同.

只放在冰箱里就可以维持**最长8周新鲜的状态**

03.多一合保护产品

产品比较

1. 品牌		Dr.Clo	P&G	Dettol	유한양행
2. 产品					
3. 制造国					
4. 功能	气体	O	X	X	X
	除霉	O	X	X	O
	抗病毒	△	X	?	?
	消毒	O	X	O	O
	除臭	O	O	X	X
5. 注册FDA		O	X	X	X

03.多一合保护产品

产品列队

线下专用 泡罩型包装

车辆用

冰箱用

家庭用

网上销售用 盒子型包装

04.卡通人物许可合作现状

	POKÉMON	MINIONS	뽀롱뽀롱 뽀로로	LINE FRIENDS	미니특공대
箱子型产品					
公仔型产品				计划上市	计划上市

05.认证情况

论文

Letters in Applied Microbiology

Letters in Applied Microbiology ISSN 0266-8254

ORIGINAL ARTICLE

Effect of low-concentration chlorine dioxide gas against bacteria and viruses on a glass surface in wet environments

H. Morino, T. Fukuda, T. Miura and T. Shibata

Research and Development Department, Taiko Pharmaceutical Co., Ltd, Suita, Osaka, Japan

Keywords
bacteria, chlorine dioxide, disinfectant, gas, microbe, virus.

Correspondence
Hirofumi Morino, Taiko Pharmaceutical Co., Ltd, Uchihonmachi 3-34-14, Suita, Osaka 564-0032, Japan.
E-mail: morino@seirogan.co.jp

2011/1115: received 5 July 2011, revised 8 September 2011 and accepted 19 September 2011

doi:10.1111/j.1472-765X.2011.03156.x

Abstract

Aims: To evaluate the efficacy of low-concentration chlorine dioxide (ClO_2) gas against model microbes in the wet state on a glass surface.
Methods and Results: We set up a test room (39 m^3) and the ClO_2 gas was produced by a ClO_2 gas generator that continuously releases a constant low-concentration ClO_2 gas. Influenza A virus (Flu-A), feline calicivirus (FCV), *Staphylococcus aureus* and *Escherichia coli* were chosen as the model microbes. The low-concentration ClO_2 gas (mean 0·05 ppmv, 0·14 mg m^{-3}) inactivated Flu-A and *E. coli* (>5 $\log_{10}$ reductions) and FCV and *S. aureus* (>2 $\log_{10}$ reductions) in the wet state on glass dishes within 5 h.
Conclusions: The treatment of wet environments in the presence of human activity such as kitchens and bathrooms with the low-concentration ClO_2 gas would be useful for reducing the risk of infection by bacteria and viruses residing on the environmental hard surfaces without adverse effects.
Significance and Impact of the Study: This study demonstrates that the low-concentration ClO_2 gas (mean 0·05 ppmv) inactivates various kinds of microbes such as Gram-positive and Gram-negative bacteria, enveloped and nonenveloped viruses in the wet state.

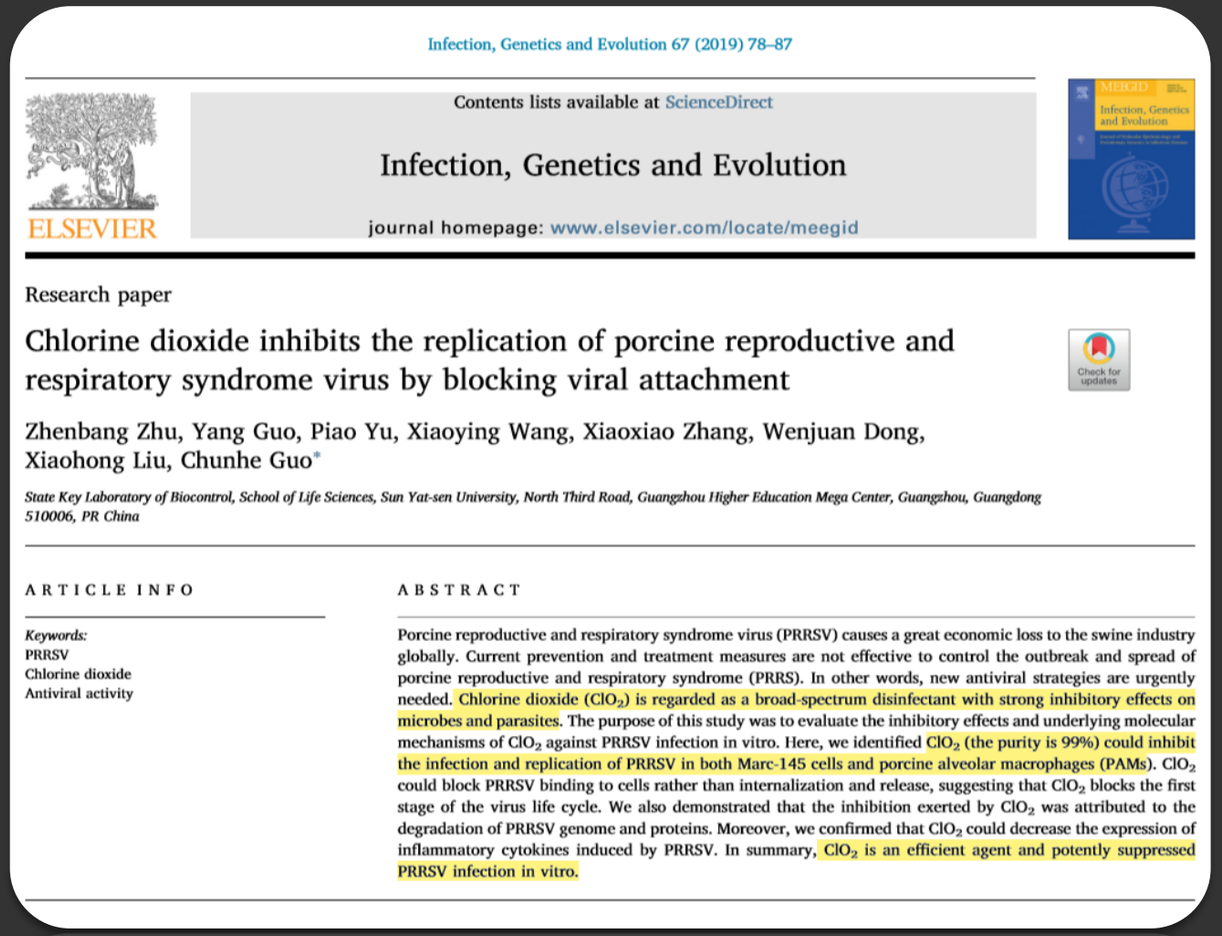
”低浓度ClO2气体,有助减低存在于环境上的细菌和病毒感染的机会。.”

“"利用极低二氧化氯气浓度对空降细菌和病毒的活化”

*参考: Morino, H. , Fukuda, T. , Miura, T. , Shibata, T. (2011), ‘Letters in applied microbiology’, Vol.53 No.6 [2011], SCI;SCIE;SCOPUS

05.认证情况

论文



Infection, Genetics and Evolution 67 (2019) 78–87

Contents lists available at ScienceDirect

Infection, Genetics and Evolution

journal homepage: www.elsevier.com/locate/meegid

Research paper

Chlorine dioxide inhibits the replication of porcine reproductive and respiratory syndrome virus by blocking viral attachment

Zhenbang Zhu, Yang Guo, Piao Yu, Xiaoying Wang, Xiaoxiao Zhang, Wenjuan Dong, Xiaohong Liu, Chunhe Guo*

State Key Laboratory of Biocontrol, School of Life Sciences, Sun Yat-sen University, North Third Road, Guangzhou Higher Education Mega Center, Guangzhou, Guangdong 510006, PR China

ARTICLE INFO

Keywords:
PRRSV
Chlorine dioxide
Antiviral activity

ABSTRACT

Porcine reproductive and respiratory syndrome virus (PRRSV) causes a great economic loss to the swine industry globally. Current prevention and treatment measures are not effective to control the outbreak and spread of porcine reproductive and respiratory syndrome (PRRS). In other words, new antiviral strategies are urgently needed. Chlorine dioxide (ClO_2) is regarded as a broad-spectrum disinfectant with strong inhibitory effects on microbes and parasites. The purpose of this study was to evaluate the inhibitory effects and underlying molecular mechanisms of ClO_2 against PRRSV infection in vitro. Here, we identified ClO_2 (the purity is 99%) could inhibit the infection and replication of PRRSV in both Marc-145 cells and porcine alveolar macrophages (PAMs). ClO_2 could block PRRSV binding to cells rather than internalization and release, suggesting that ClO_2 blocks the first stage of the virus life cycle. We also demonstrated that the inhibition exerted by ClO_2 was attributed to the degradation of PRRSV genome and proteins. Moreover, we confirmed that ClO_2 could decrease the expression of inflammatory cytokines induced by PRRSV. In summary, ClO_2 is an efficient agent and potently suppressed PRRSV infection in vitro.

“二氧化氯通过阻止病毒附着抑制猪的生殖和呼吸综合征病毒的复制”

“二氧化氯是一种高效的药物，在体外可有效抑制PRRSV感染“

"利用二氧化氯处理医疗废物过程灭活人体免疫缺陷病毒 “

*参考:

Zhu, Zhenbang , Guo, Yang , Yu, Piao , Wang, Xiaoying , Zhang, Xiaoxiao , Dong, Wenjuan , Liu, Xiaohong , Guo, Chunhe (2019), " INFECTION GENETICS AND EVOLUTION", Vol.67 No.- [2019], SCIE;SCOPUS

05.认证情况

论文

Journal of General Virology (2008), **89**, 60–67 DOI 10.1099/vir.0.83393-0

Protective effect of low-concentration chlorine dioxide gas against influenza A virus infection

Norio Ogata and Takashi Shibata

Research Institute, Taiko Pharmaceutical Co. Ltd, 3-34-14 Uchihonmachi, Suita, Osaka 564-0032, Japan

Correspondence
Norio Ogata
nogata7@yahoo.co.jp

Influenza virus infection is one of the major causes of human morbidity and mortality. Between humans, this virus spreads mostly via aerosols excreted from the respiratory system. Current means of prevention of influenza virus infection are not entirely satisfactory because of their limited efficacy. Safe and effective preventive measures against pandemic influenza are greatly needed. We demonstrate that infection of mice induced by aerosols of influenza A virus was prevented by chlorine dioxide (ClO_2) gas at an extremely low concentration (below the long-term permissible exposure level to humans, namely 0.1 p.p.m.). Mice in semi-closed cages were exposed to aerosols of influenza A virus (1 LD_{50}) and ClO_2 gas (0.03 p.p.m.) simultaneously for 15 min. Three days after exposure, pulmonary virus titre ($TCID_{50}$) was $10^{2.6\pm1.5}$ in five mice treated with ClO_2, whilst it was $10^{6.7\pm0.2}$ in five mice that had not been treated (P=0.003). Cumulative mortality after 16 days was 0/10 mice treated with ClO_2 and 7/10 mice that had not been treated (P=0.002). In *in vitro* experiments, ClO_2 denatured viral envelope proteins (haemagglutinin and neuraminidase) that are indispensable for infectivity of the virus, and abolished infectivity. Taken together, we conclude that ClO_2 gas is effective at preventing aerosol-induced influenza virus infection in mice by denaturing viral envelope proteins at a concentration well below the permissible exposure level to humans. ClO_2 gas could therefore be useful as a preventive means against influenza in places of human activity without necessitating evacuation.

Received 29 August 2007
Accepted 7 October 2007

“因此，二氧化氯气体可作为人类活动场所预防流感的有效的手段”

气态二氧化氯对蓝莓杜兰病毒灭效果的评价

*Reference: Ogata, N. , Shibata, T. (2008), “ The Journal of general virology”, Vol.89 No.1 [2008], SCI;SCIE;SCOPUS

唯一以熏蒸型杀菌除臭剂得到认可的产品

Inspection Report

Reissuance(R1)
Date : 2020.04.27

Inspection no : C-A10B-K0005000I-A151 1/4

1. Applicant

Receipt no.	Received date	Use
HT18-05634	30. Oct. 2018	Renewal
Company name	**Business registration no.**	**Name (Representative)**
NON Co., Ltd	305-29-61709	Su-Young, Yoo
Tel.		**Email**
82-41-752-4147	82-41-752-4146	magic8577@naver.com

Address
302-1, IACF OF Joongbu-University, 201,
Daehak-ro, Chubu-myeon, Kumsan-gun, Chungnam, 32713, Korea

2. Inspection item

Item name	Item classification no. (HS)	Model name
Deodorizing agents	-	Dr. Clo deodorant
Maker name	**Produced country**	**Importer name**
NON Co., Ltd	Republic of Korea	-
Weight / volume / sheets	**Model category under safety and marking standards**	
7 g (5 mL)	Deodorizing agents, For indoors, For cars, For refrigerators, For pet goods, Others(For bathrooms, For food storage rooms, For bags, For toys), Fumigation type	

3. Inspected date : 30. Oct. 2018 ~ 14. Nov. 2018
4. Inspection method : Ministry of environment notice No. 2018-12 'The Safety and Labeling Standards for Product of Concern over Risk'
5. Environmental condition : 'Temperature (20 ~ 30) ℃, humidity (40 ~ 60) % R.H.
6. Inspection result : PASS (Vessel strength test : Not applicable)
7. Expiration date : 30. Oct. 2018 ~ 29. Oct. 2021 (Initial issued date : 30. Oct. 2015)
※ Initial Inspection no. : C-A10B-K005001-A150
8. Photo of sample : See attachments.

Confirmed by	Prepared by	Responsible engineer
	Name : Sung Hee Son	Name : Jin Beom Cho

Note 1. This report represents the test reports according to the requested testing method only for the samples and sample names as suggested by the client.
2. This report is not intended to guarantee quality and/or performance for the entire products.
3. This report cannot be used for any public relations and/or lawsuit including advertising and/or propagation, and any use other than the specified use is prohibited.

This Inspection report is hereby issued as above in accordance with Article 6 and 7 of the "The Safety and Labeling Standards for Product of Concern over Risk".

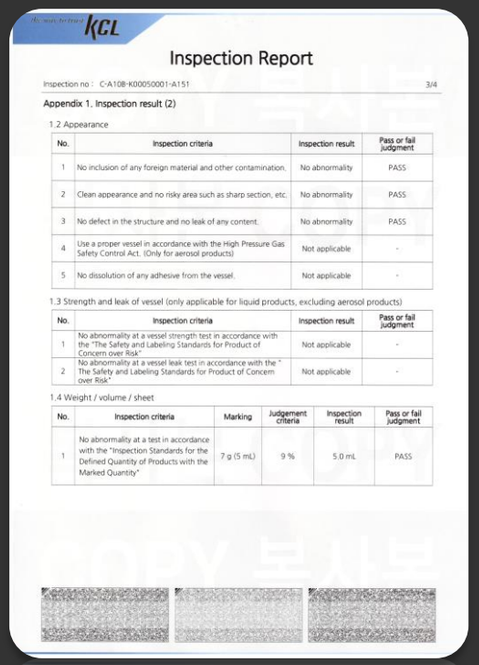
14. Nov. 2018

Korea Conformity Laboratories
President Yoon Kap Seok

Address : 08503 199, Gasan digital 1-ro, Geumcheon-gu, Seoul, Korea 82-2-2102-2500
Result Inquiry : Consumer Chemicals Safety Unit 82-2-2102-2681

〈所有用途批准完毕〉

除臭剂，室内空气用，车辆用，冰箱用，宠物用（直接用于动物用途除外），其他（浴室，食料品储存用，书包用，玩具用），熏蒸型



Inspection Report

Inspection no : C-A10B-K0005000I-A151 3/4

Appendix 1. Inspection result (2)

1.2 Appearance

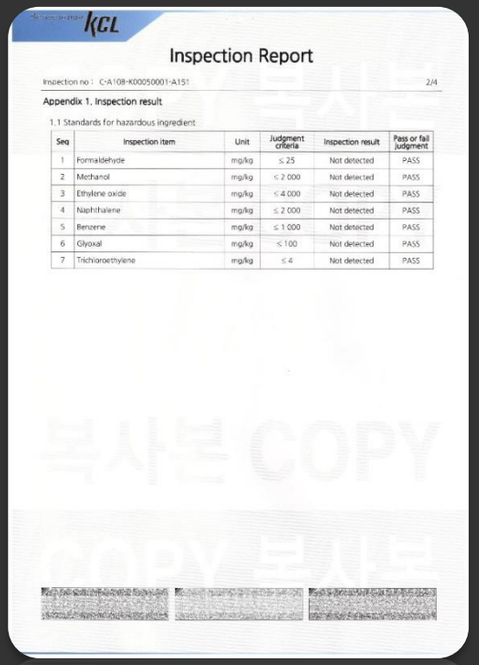
No.	Inspection criteria	Inspection result	Pass or fail judgment
1	No inclusion of any foreign material and other contamination.	No abnormality	PASS
2	Clean appearance and no risky area such as sharp section, etc.	No abnormality	PASS
3	No defect in the structure and no leak of any content.	No abnormality	PASS
4	Use a proper vessel in accordance with the High Pressure Gas Safety Control Act. (Only for aerosol products)	Not applicable	-
5	No dissolution of any adhesive from the vessel.	Not applicable	-

1.3 Strength and leak of vessel (only applicable for liquid products, excluding aerosol products)

No.	Inspection criteria	Inspection result	Pass or fail judgment
1	No abnormality at a vessel strength test in accordance with the "The Safety and Labeling Standards for Product of Concern over Risk"	Not applicable	-
2	No abnormality at a vessel leak test in accordance with the " The Safety and Labeling Standards for Product of Concern over Risk"	Not applicable	-

1.4 Weight / volume / sheet

No.	Inspection criteria	Marking	Judgement criteria	Inspection result	Pass or fail judgment
1	No abnormality at a test in accordance with the "Inspection Standards for the Defined Quantity of Products with the Marked Quantity"	7 g (5 mL)	9 %	5.0 mL	PASS



Inspection Report

Inspection no : C-A10B-K0005000I-A151 2/4

Appendix 1. Inspection result

1.1 Standards for hazardous ingredient

Seq	Inspection item	Unit	Judgment criteria	Inspection result	Pass or fail judgment
1	Formaldehyde	mg/kg	≤ 25	Not detected	PASS
2	Methanol	mg/kg	≤ 2 000	Not detected	PASS
3	Ethylene oxide	mg/kg	≤ 4 000	Not detected	PASS
4	Naphthalene	mg/kg	≤ 2 000	Not detected	PASS
5	Benzene	mg/kg	≤ 1 000	Not detected	PASS
6	Glyoxal	mg/kg	≤ 100	Not detected	PASS
7	Trichloroethylene	mg/kg	≤ 4	Not detected	PASS

〈危害物质不检出〉

不检出甲醛，乙醇，氧化乙烯，苯，乙二醛，三氯乙烯

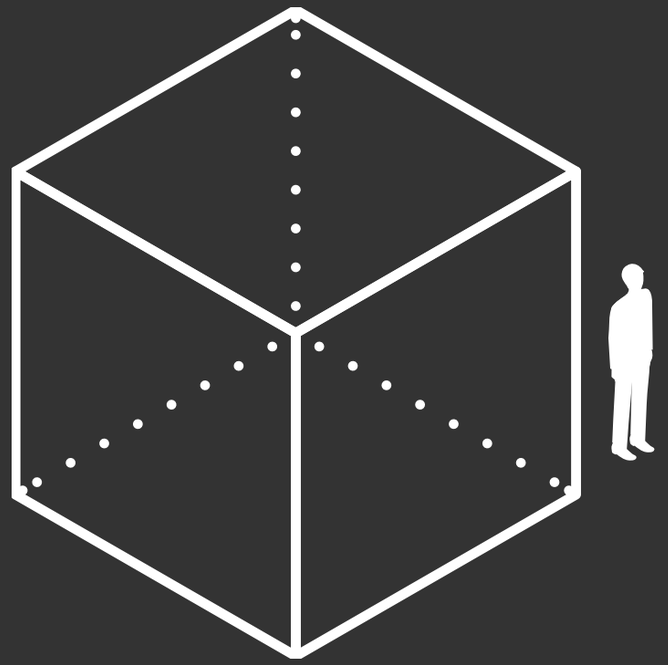
大特科露根据环境部法令的标准完成了安全性验证

05.认证情况

ISO，KS 标准

大特科露以ISO 16000，KS C 9314 规格进行测试

8㎥ 空间比较



不是小的试验箱，而是在8㎥空间测试

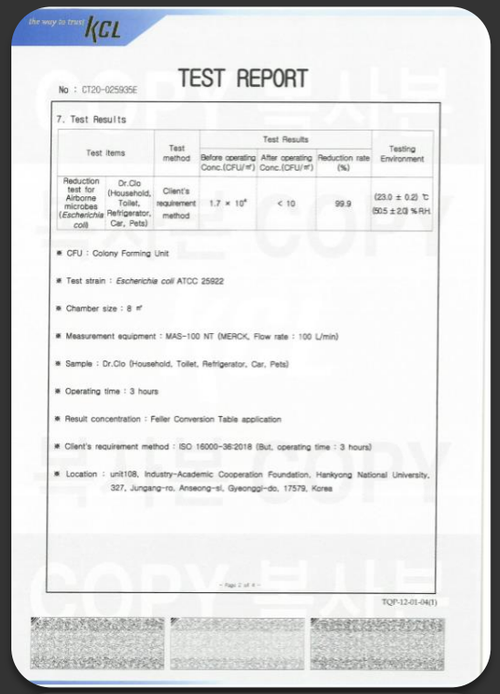
FDA 杀菌医疗机器 1等级

大特科露是通过韩国政府的R&D支援开发，注册美国FDA的杀菌 / 除臭剂

05.认证情况

测试报告书

浮游细菌降测试



TEST REPORT

No : CT20-025935E

7. Test Results

Test items		Test method	Test Results: Before operating Conc.(CFU/㎥)	Test Results: After operating Conc.(CFU/㎥)	Test Results: Reduction rate (%)	Testing Environment
Reduction test for Airborne microbes (*Escherichia coli*)	Dr.Clo (Household, Toilet, Refrigerator, Car, Pets)	Client's requirement method	1.7×10^4	< 10	99.9	(23.0 ± 0.2) ℃ (50.5 ± 2.0) %RH

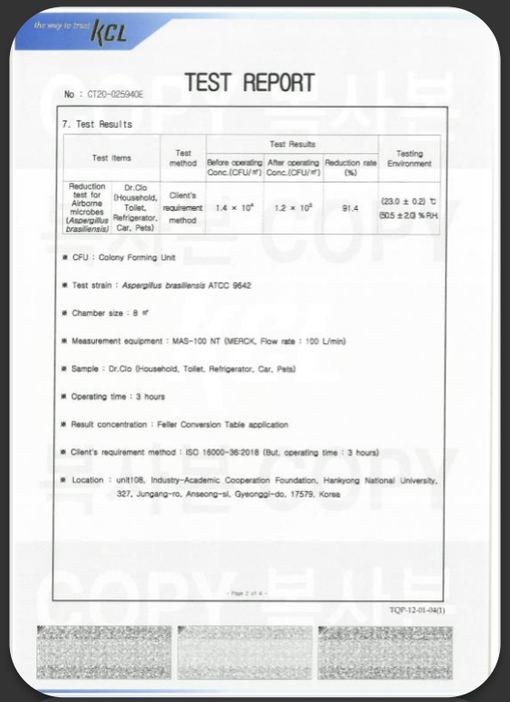
- CFU : Colony Forming Unit
- Test strain : *Escherichia coli* ATCC 25922
- Chamber size : 8 ㎥
- Measurement equipment : MAS-100 NT (MERCK, Flow rate : 100 L/min)
- Sample : Dr.Clo (Household, Toilet, Refrigerator, Car, Pets)
- Operating time : 3 hours
- Result concentration : Feller Conversion Table application
- Client's requirement method : ISO 16000-36:2018 (But, operating time : 3 hours)
- Location : unit108, Industry-Academic Cooperation Foundation, Hankyong National University, 327, Jungang-ro, Anseong-si, Gyeonggi-do, 17579, Korea

TQP-12-01-04(1)

大肠杆菌 ， 绿脓菌， 黄色葡萄球菌

肺炎菌 ， MRSA， 99.9% 杀菌

减霉测试



TEST REPORT

No : CT20-025940E

7. Test Results

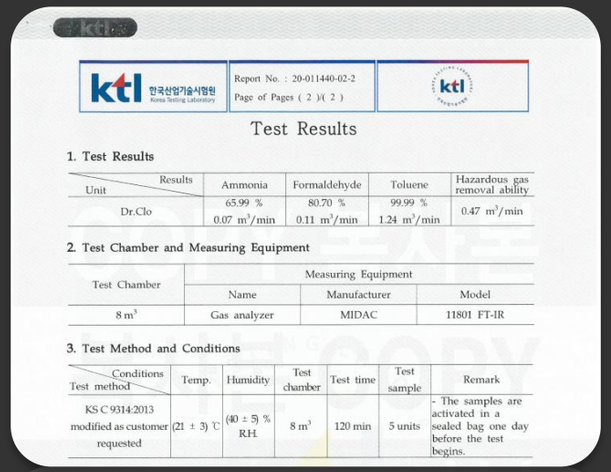
Test items		Test method	Test Results: Before operating Conc.(CFU/㎥)	Test Results: After operating Conc.(CFU/㎥)	Test Results: Reduction rate (%)	Testing Environment
Reduction test for Airborne microbes (*Aspergillus brasiliensis*)	Dr.Clo (Household, Toilet, Refrigerator, Car, Pets)	Client's requirement method	1.4×10^4	1.2×10^3	91.4	(23.0 ± 0.2) ℃ (50.5 ± 2.0) %RH

- CFU : Colony Forming Unit
- Test strain : *Aspergillus brasiliensis* ATCC 9642
- Chamber size : 8 ㎥
- Measurement equipment : MAS-100 NT (MERCK, Flow rate : 100 L/min)
- Sample : Dr.Clo (Household, Toilet, Refrigerator, Car, Pets)
- Operating time : 3 hours
- Result concentration : Feller Conversion Table application
- Client's requirement method : ISO 16000-36:2018 (But, operating time : 3 hours)
- Location : unit108, Industry-Academic Cooperation Foundation, Hankyong National University, 327, Jungang-ro, Anseong-si, Gyeonggi-do, 17579, Korea

TQP-12-01-04(1)

黑霉 91.4% 杀菌

有害气体测试



ktl 한국산업기술시험원 Korea Testing Laboratory

Report No. : 20-011440-02-2

Page of Pages (2)/(2)

Test Results

1. Test Results

Unit / Results	Ammonia	Formaldehyde	Toluene	Hazardous gas removal ability
Dr.Clo	65.99 % 0.07 m^3/min	80.70 % 0.11 m^3/min	99.99 % 1.24 m^3/min	0.47 m^3/min

2. Test Chamber and Measuring Equipment

Test Chamber	Measuring Equipment: Name	Manufacturer	Model
8 m^3	Gas analyzer	MIDAC	11801 FT-IR

3. Test Method and Conditions

Test method / Conditions	Temp.	Humidity	Test chamber	Test time	Test sample	Remark
KS C 9314:2013 modified as customer requested	(21 ± 3) ℃	(40 ± 5) % R.H.	8 m^3	120 min	5 units	- The samples are activated in a sealed bag one day before the test begins.

甲苯 99.99 除去

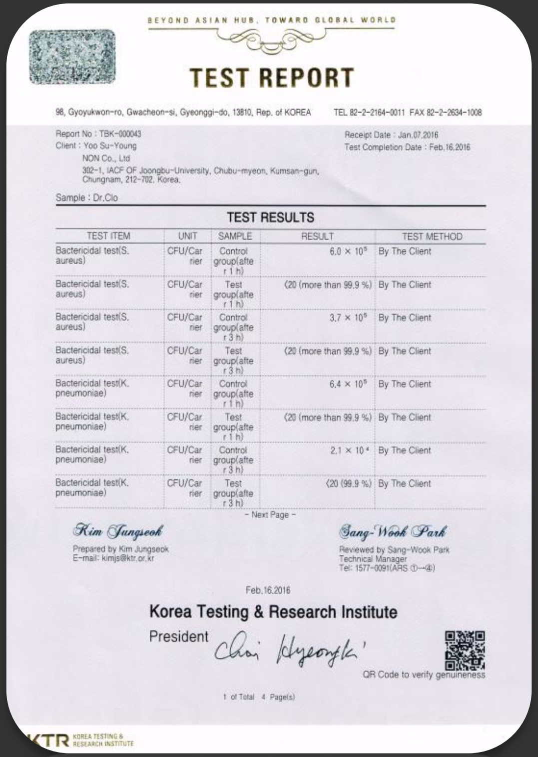
氨气 65.99% 除去

甲醛 80.70% 除去

05.认证情况

测试报告书

杀菌



BEYOND ASIAN HUB, TOWARD GLOBAL WORLD

TEST REPORT

98, Gyoyukwon-ro, Gwacheon-si, Gyeonggi-do, 13810, Rep. of KOREA TEL 82-2-2164-0011 FAX 82-2-2634-1008

Report No : TBK-000043
Client : Yoo Su-Young
NON Co., Ltd
302-1, IACF OF Joongbu-University, Chubu-myeon, Kumsan-gun, Chungnam, 212-702, Korea.

Receipt Date : Jan.07.2016
Test Completion Date : Feb.16.2016

Sample : Dr.Clo

TEST RESULTS

TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
Bactericidal test(S. aureus)	CFU/Carrier	Control group(after 1 h)	6.0×10^5	By The Client
Bactericidal test(S. aureus)	CFU/Carrier	Test group(after 1 h)	〈20 (more than 99.9 %)	By The Client
Bactericidal test(S. aureus)	CFU/Carrier	Control group(after 3 h)	3.7×10^5	By The Client
Bactericidal test(S. aureus)	CFU/Carrier	Test group(after 3 h)	〈20 (more than 99.9 %)	By The Client
Bactericidal test(K. pneumoniae)	CFU/Carrier	Control group(after 1 h)	6.4×10^5	By The Client
Bactericidal test(K. pneumoniae)	CFU/Carrier	Test group(after 1 h)	〈20 (more than 99.9 %)	By The Client
Bactericidal test(K. pneumoniae)	CFU/Carrier	Control group(after 3 h)	2.1×10^4	By The Client
Bactericidal test(K. pneumoniae)	CFU/Carrier	Test group(after 3 h)	〈20 (99.9 %)	By The Client

- Next Page -

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Feb.16.2016

Korea Testing & Research Institute
President

QR Code to verify genuineness

1 of Total 4 Page(s)

黄色葡萄球菌，肺炎菌， 绿脓菌 99.9% 杀菌

蜡样芽胞杆菌 99.9% 杀菌

除臭

KCL

5500 8437 4905 9810

시험성적서

1. 성 적 서 번 호 : CT17-057527
2. 의 뢰 자
   ○ 업 체 명 : NON
   ○ 주 소 : 충청남도 금산군 추부면 대학로 201 302-1(중부대학교산학협력관)
3. 시험기간 : 2017년 05월 12일 ~ 2017년 05월 23일
4. 시험성적서의 용도 : 품질관리
5. 시 료 명 : 닥터클로
6. 시험방법
   (1) 의뢰자제시
7. 시험결과
   1) 닥터클로

Test Items	Unit	Test Method	Test Results	Remarks
Deodorization Test for Acetaldehyde, Toluene, Ammonia, Hydrogen sulfide etc.	%	(1)	Refer to the attachments	(26.5 ± 0.5) ℃ (42.4 ± 1.8) % R.H.

확인	작성자 성 명	이형욱	기술책임자 성 명	배상복

2017년 05월 23일

한국건설생활환경시험연구원장

군포시험실 : 15845 경기도 군포시 공단로 149 I' VALLEY군포 805호 (031)389-9100
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양식QP-20-01-05(5)

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05.认证情况

日本保健&微生物研究所测试完毕

Dr. Clo　　99.99　杀菌

Hygiene & Microbiology Research Center
For Environment and Human Health

試験依頼番号：2018D-BT-441

試 験 検 査 報 告 書

試験依頼者：　株式会社 NON
検　　体：　本報告書中に記載
試 験 項 目：　抗菌試験
試験責任者：　李　昕一

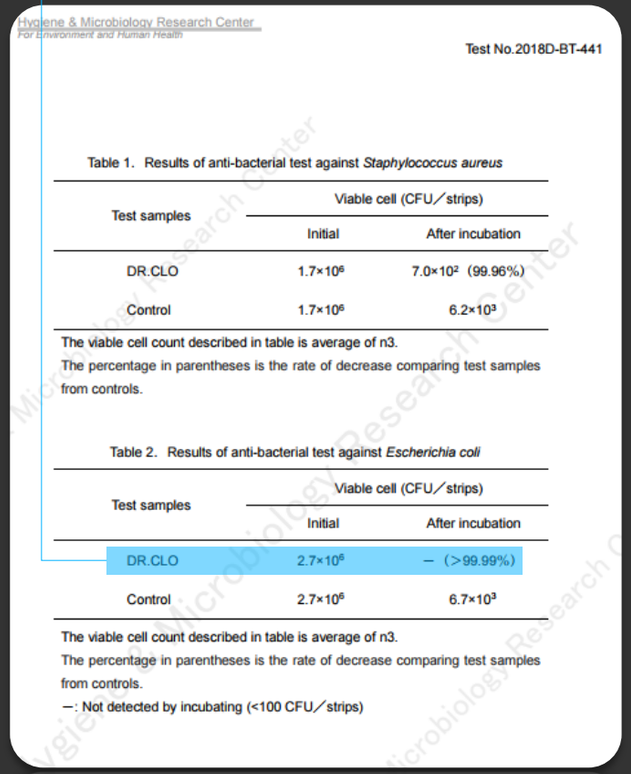
２０１８年６月２６日、当センターに提供された検体について行った試験結果は次のとおりです。

２０１８年７月２４日

衛生微生物研究センター
〒125-0062 東京都葛飾区[illegible]
TEL 03(5680)9831　FAX 03[illegible]

本報告書の転載につきましては当センターに事前にご連絡ください。

- 1 -



Hygiene & Microbiology Research Center
For Environment and Human Health

Test No.2018D-BT-441

Table 1. Results of anti-bacterial test against *Staphylococcus aureus*

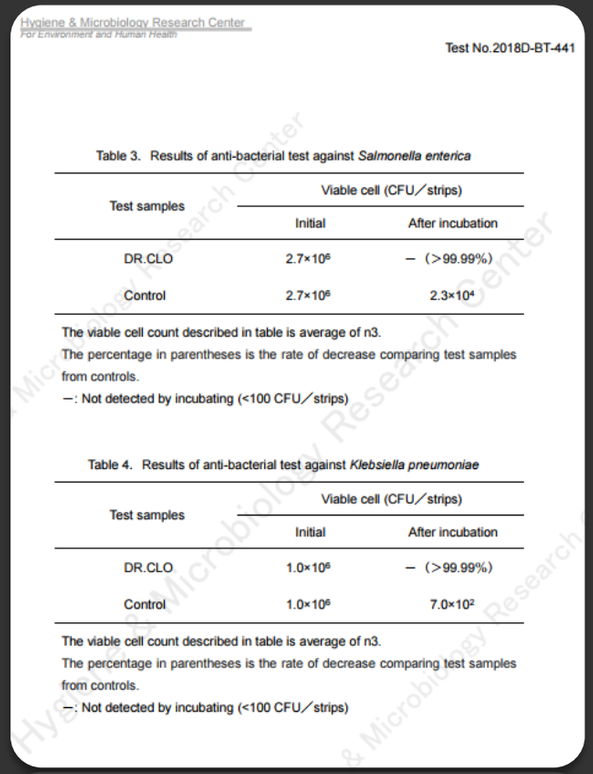
Test samples	Viable cell (CFU／strips)	
	Initial	After incubation
DR.CLO	1.7×10^6	7.0×10^2 (99.96%)
Control	1.7×10^6	6.2×10^3

The viable cell count described in table is average of n3.
The percentage in parentheses is the rate of decrease comparing test samples from controls.

Table 2. Results of anti-bacterial test against *Escherichia coli*

Test samples	Viable cell (CFU／strips)	
	Initial	After incubation
DR.CLO	2.7×10^6	－ (>99.99%)
Control	2.7×10^6	6.7×10^3

The viable cell count described in table is average of n3.
The percentage in parentheses is the rate of decrease comparing test samples from controls.
－: Not detected by incubating (<100 CFU／strips)



Hygiene & Microbiology Research Center
For Environment and Human Health

Test No.2018D-BT-441

Table 3. Results of anti-bacterial test against *Salmonella enterica*

Test samples	Viable cell (CFU／strips)	
	Initial	After incubation
DR.CLO	2.7×10^6	－ (>99.99%)
Control	2.7×10^6	2.3×10^4

The viable cell count described in table is average of n3.
The percentage in parentheses is the rate of decrease comparing test samples from controls.
－: Not detected by incubating (<100 CFU／strips)

Table 4. Results of anti-bacterial test against *Klebsiella pneumoniae*

Test samples	Viable cell (CFU／strips)	
	Initial	After incubation
DR.CLO	1.0×10^6	－ (>99.99%)
Control	1.0×10^6	7.0×10^2

The viable cell count described in table is average of n3.
The percentage in parentheses is the rate of decrease comparing test samples from controls.
－: Not detected by incubating (<100 CFU／strips)

日本保健&微生物研究所也验证了99.9%的完美杀菌力和稳定的浓度。

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Scope of Certification

Production of Sanitizer Deodorant for Home use and Pesticide

Initial Certification Date : November 04, 2019 Valid Period : November 04, 2019 - November 03, 2022

- This certificate is valid only if the organization meets the requirement continually
- Certification Validity information is available at www.kpcqa.or.kr

Date of Issue : November 04, 2019

Ju-Sik, Kim
Lead Auditor

Eui-Sik, Jeong
CEO

KOREA PRODUCTIVITY CENTER QUALITY ASSURANCE

12F, Floor KCCI building, 39, Sejong-daero, Jung-gu, Seoul, Korea

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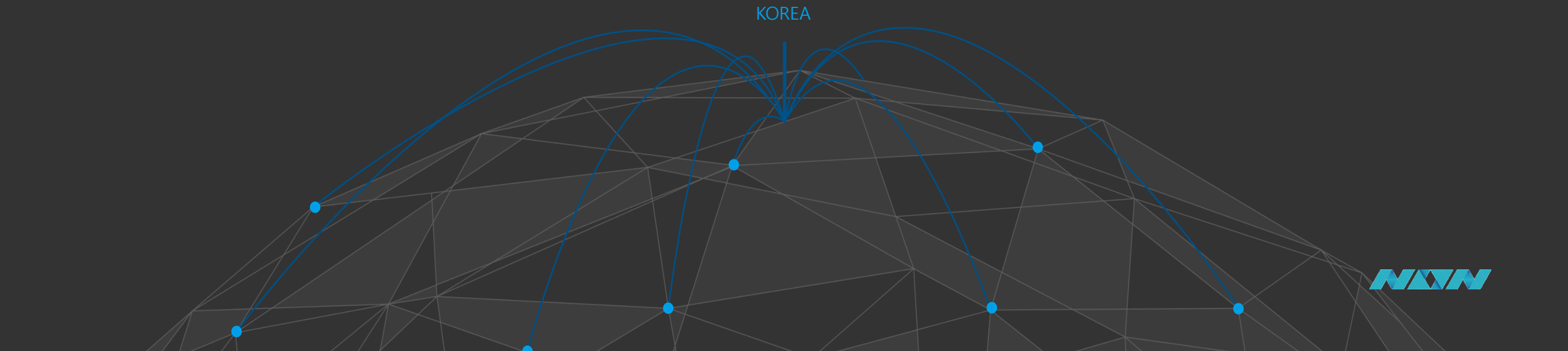

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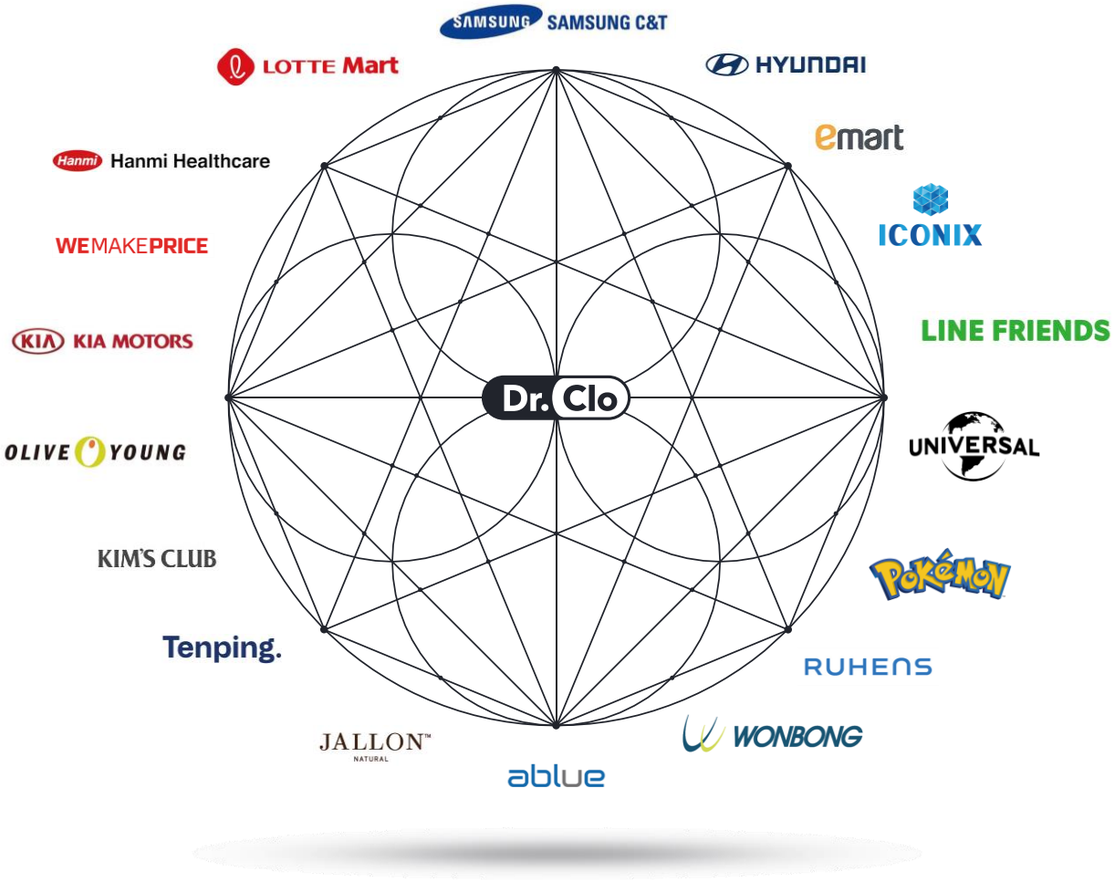

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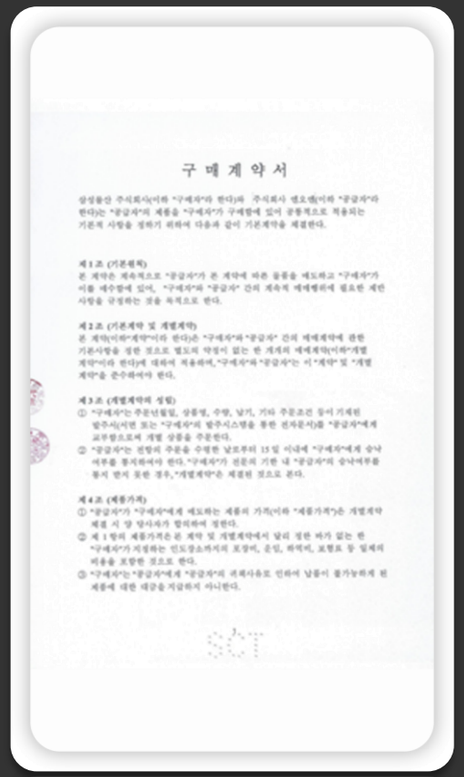

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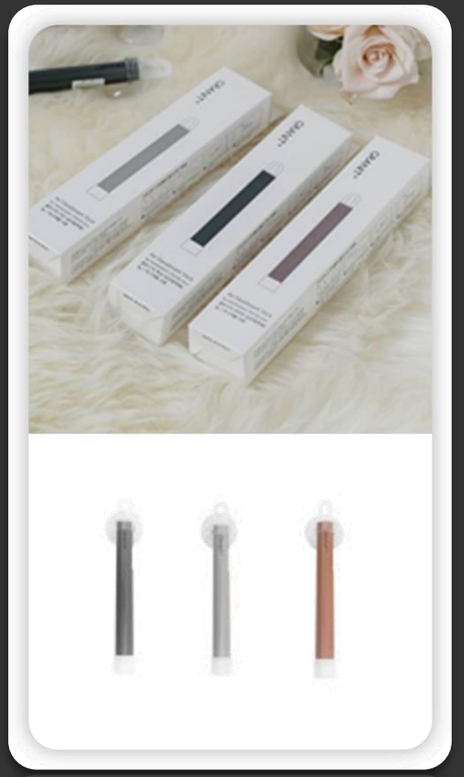

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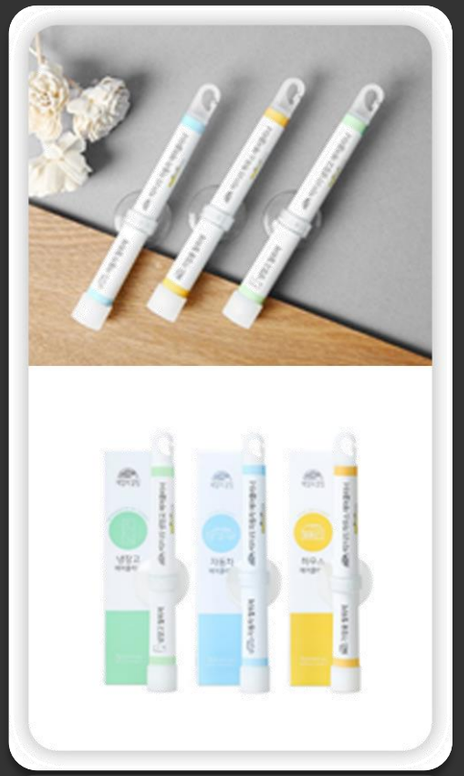

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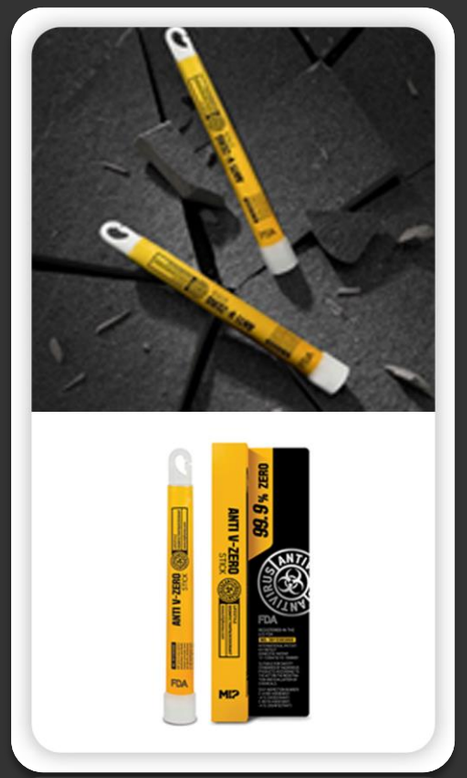

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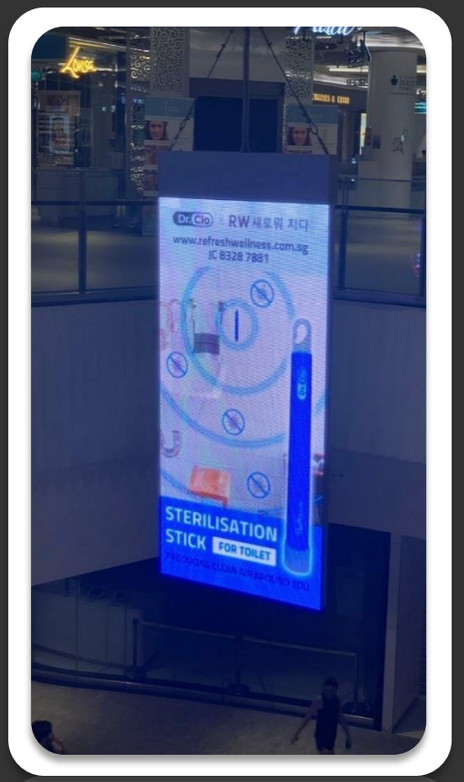

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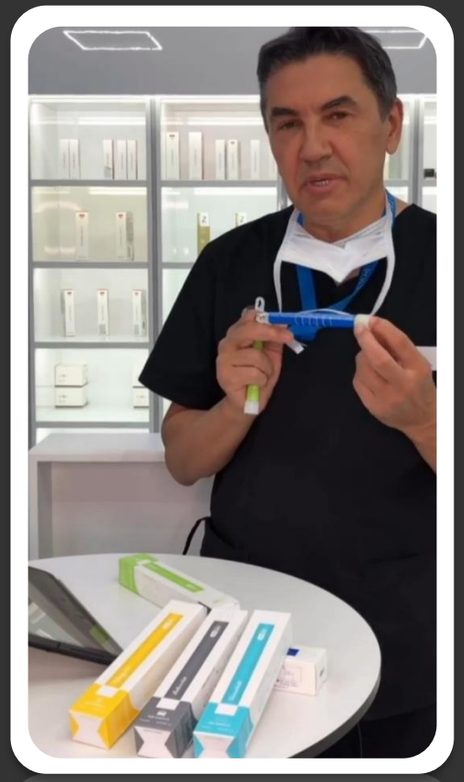

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