V-Defense

LUCA V-Defense Nasal Spray

Prevention of respiratory viral infections

LUCA AICell, Inc.

Bio-Platform Company

based on the Artificial Intelligence of Ultimate Nanotechnology

The global trend to lift outdoor mask mandate

While most OECD member countries have lifted the obligation to wear indoor and outdoor masks and declared daily recovery, in the case of Korea, as of January 2023, the outdoor and indoor mask mandatory has been lifted.

【 The status of mandatory indoor/outdoor masks in OECD countries 】

January 2023

Country	United States	United Kingdom	Germany	France	Singapore	New Zealand	Japan	South Korea
Outdoor	X	X	X	X	X	X	X	X
Indoor	X	X	X	X	X	X	X	X
Mask mandatory facility			Medical facility, Long-distance train		Medical facility and sanatorium, Public transportation	Medical facility and sanatorium		Medical facility, Public transportation

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Safety devices to replace masks are required

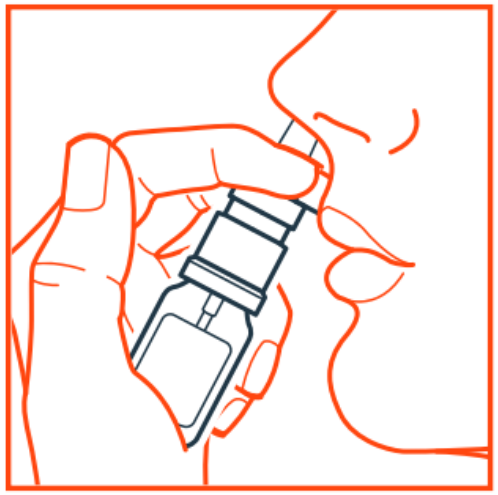
The risk of respiratory viral infection remains as the COVID-19 mutant virus continues to emerge, and seasonal flu is also prevalent periodically.

The LUCA V-Defense Nasal Spray is

a minimal safety device that can prevent respiratory viral infections

such as COVID-19 and influenza, replacing the mask used for a long time.

Lift outdoor mask mandate



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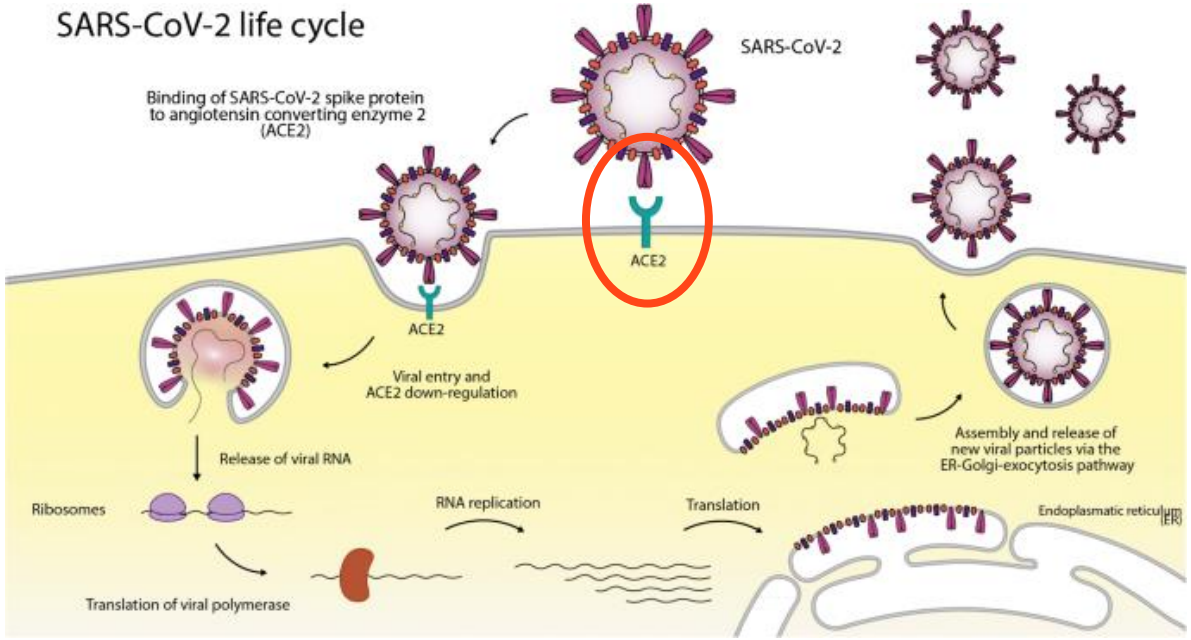
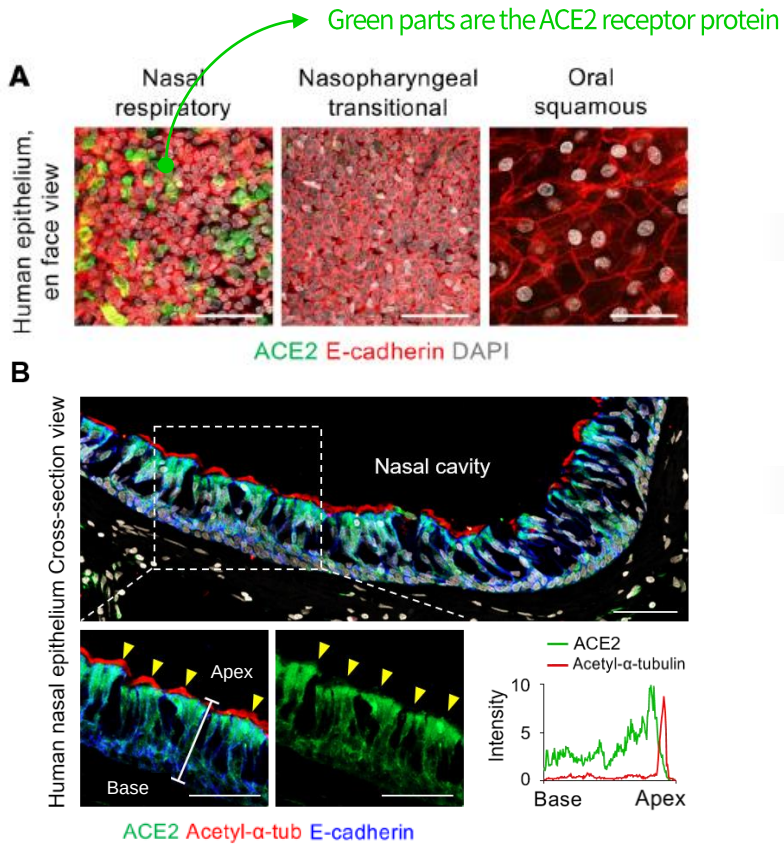
COVID-19 Virus Infection Route(1/3)

COVID-19 virus penetrates cells through ACE2 receptors and causes infection.



COVID-19 Virus Infection Route(2/3)

Large amounts of ACE2 receptors exist only in the nasal respiratory epithelium, and the nasal respiratory epithelium is the first route for the COVID-19 virus to penetrate the human body.



The human upper respiratory tract is composed of nasal respiratory epithelium, nasopharynx transitional epithelium, and oral squamous epithelium. It has been found that large amounts of ACE2 , the receptor for the COVID-19 virus exist only on the surface of the nasal respiratory epithelium.

ACE2 receptors are concentrated at the top end of the nasal respiratory epithelium in contact with air.

The nasal respiratory epithelium is the first path where the COVID-19 virus penetrates the human body. Blocking this penetration path is very important in preventing infection.

* Source : Nasal Ciliated Cells are Primary Targets for SARS-CoV-2 Replication in Early Stage of COVID-19, Journal of Clinical Investigation (2021)

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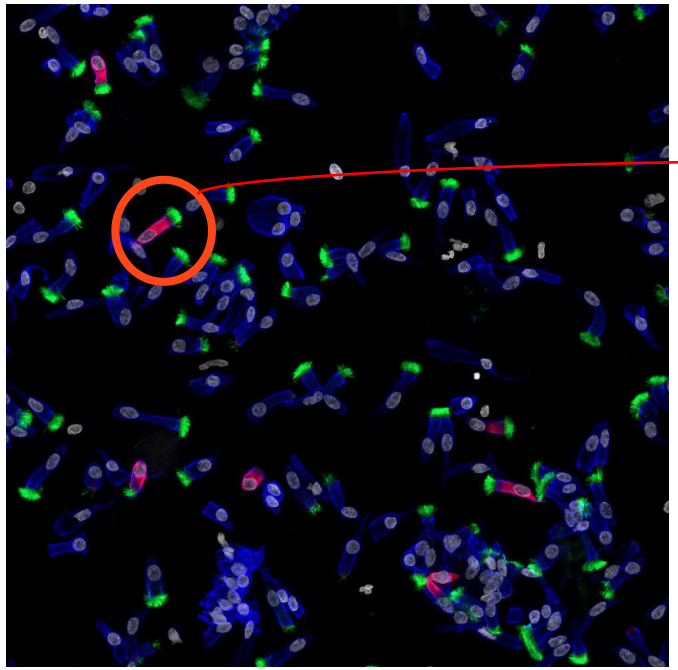
COVID-19 Virus Infection Route(3/3)

As a result of visual analysis through immunofluorescence staining, it was confirmed that the COVID-19 virus first replicated/proliferated through nasal ciliated cells.

[Reference] Tracking the first infection route of the COVID-19 virus through cell smear immunofluorescence staining



Among nasal cells, only ciliated cells (Green) have been found to replicate/proliferate the COVID-19 virus (Red)

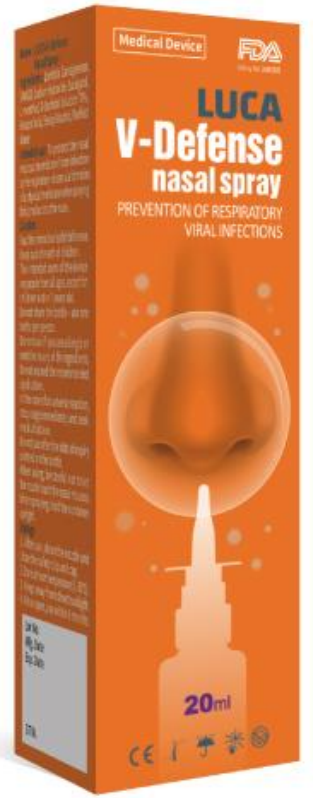
- Blue: Nasal epithelial cells
- Green: Nasal ciliated cells
- Red: COVID-19 virus

* Source : Nasal Ciliated Cells are Primary Targets for SARS-CoV-2 Replication in Early Stage of COVID-19, Journal of Clinical Investigation (2021)

LUCA AICell

Product Specification

It physically coats the nasal mucosa to prevent respiratory viral infections such as COVID-19, the flu, and the common cold.



Intended purpose

- To protect the nasal mucous membrane from infection by the respiratory viruses via formation of a physical membrane when spraying this product to the nose.

Principles of operation

- This product contains an unscented, colourless, a transparent viscous lipid and lambda carrageenan provided in nasal spray devices which consist of high-density polyethylene containers, caps, nozzles, and safety clips. When sprayed to the nose, this product forms a physical film in the nasal mucosa to prevent respiratory tract infections by viruses.

The main ingredients

- Lambda Carrageenan, SPAN20, Sodium Hydroxide, Eucalyptol, L-menthol, D-Sorbitol Solution 70%, Benzoic Acid, Benzyl Alcohol, Purified Water

Capacity of Product

- 20ml (About 200 times and 1 month usage)

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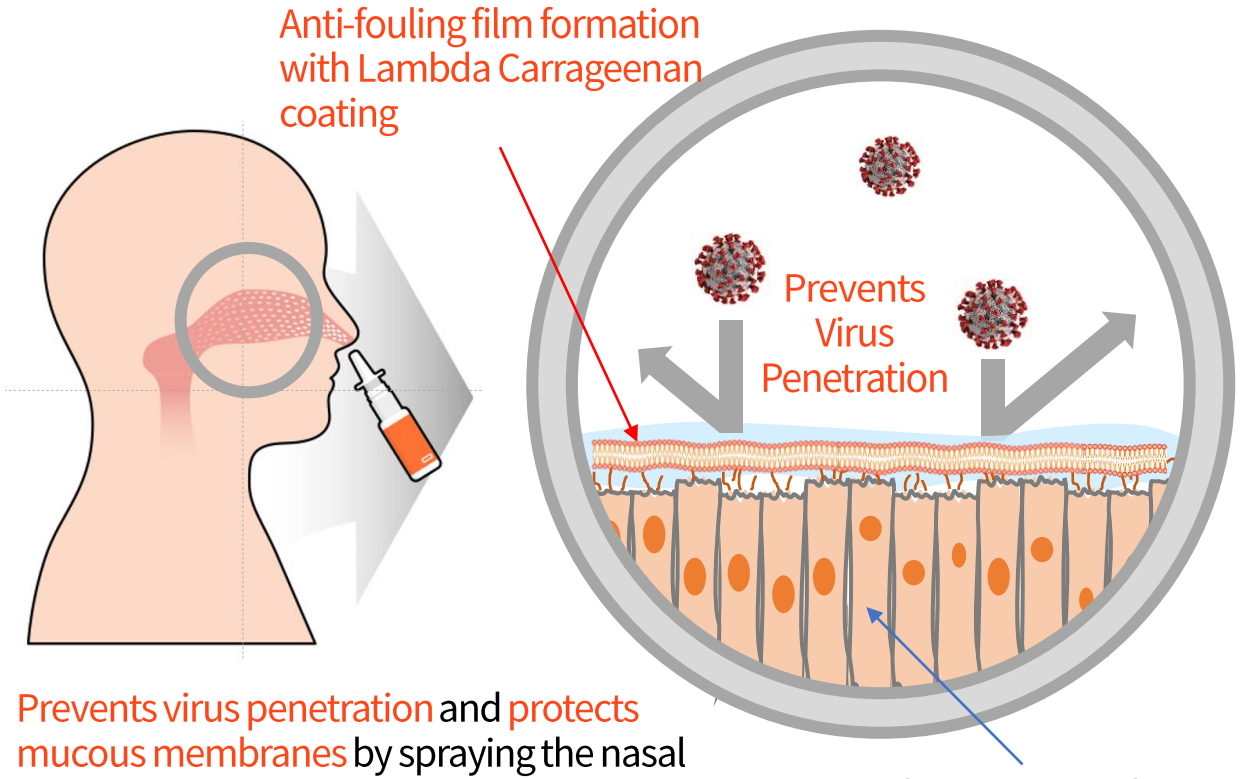
Prevention of respiratory viral infections

It physically coats the nasal mucosa to prevent respiratory viral infections such as COVID-19, the flu, and the common cold.



Prevents virus penetration and protects mucous membranes by spraying the nasal passages, the main route of infection for respiratory viruses

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Use Case

It is recommended for use in various environments requiring the protection of the nasal mucosa.

Before and after visiting concert halls and playgrounds

Days with a lot of fine dust and pollen

Before visiting a place where you can communicate with many people, such as school or company

When riding the subway, bus or plane
(Can be brought on board)

When concerned about respiratory viruses
(COVID-19, flu, etc.)

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How to Use

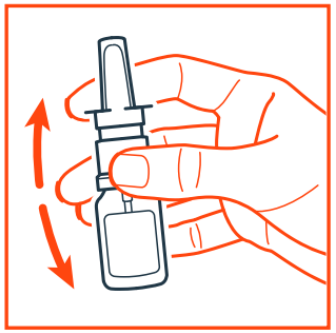
Usage instructions and steps for using a pump bottle

Spray the product three times a day through each nostril to prevent respiratory virus infections of nasal epithelium. If there are any signs or symptoms of virus infection, spray the product several times a day and/or each time through each nostril.

01

Clean inside of your nose

02

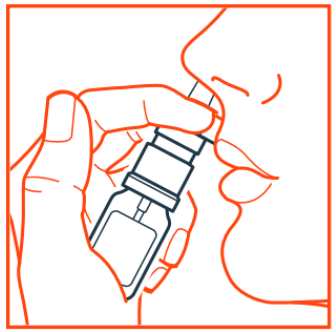


Shake the product gently and open the safety clip and cap.

03

For first-time application, pump 2-3 times in the air.

04



Hold the container upright and insert the nozzle into the nose.

05

Hold your breath for a moment, spray 1 time into each nostril and inhale lightly.

06

After use, clean the nozzle and close the safety clip and cap.

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Antiviral performance study result

99.7% Mahidol University, a Thai professional testing and certification agency, confirmed 99.7% sterilization performance within a minute as a result of an antiviral study using viruses causing COVID-19.

According to detection method namely virus inhibition assay and 50% tissue culture infectious dose assay (TCID50), we found that "LUCA V-Defense Nasal Spray" with concentrated solution can reduce the amount of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) at 99.70% with the minimal contact time of 1 minute.


MAHIDOL UNIVERSITY

No. TM78.115/00305

14 February 2022

ML (THAILAND) CO., LTD
283/48, Unit No. 1005-2, 10th floor, Home place,
Soi Sukhumvit 55 (Thonglor 13), Klongton Nua,
Wattana Bangkok 10110 Thailand

Dear ML (THAILAND) CO., LTD,

According to detection method namely virus inhibition assay and 50% tissue culture infectious dose assay (TCID50), we found that "LUCA V-Defense Nasal Spray" with concentrated solution can reduce the amount of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) at 99.70% with the minimal contact time of 1 minute.

Sincerely yours,

Pornsawan Leaungwutiwong (PhD)
Associate Professor,
Head, Department of Microbiology and Immunology,
Head, Tropical Medicine Diagnostic Reference Laboratory

Department of Microbiology and Immunology, Faculty of Tropical Medicine, Mahidol University
420/6 Ratchawithi Rd Bangkok 10400 Thailand Tel (66) 0-2306-9172 0-2354-9100-4 # 1597 Fax (66) 0-2643-5583

MAHIDOL UNIVERSITY

TEST REPORT

Company Name	ML (THAILAND) CO., LTD
Address	283/48, Unit No. 1005-2, 10th floor, Home place, Soi Sukhumvit 55 (Thonglor 13), Klongton Nua, Wattana Bangkok 10110 Thailand
TEST PRODUCT INFORMATION	
Received Date	17 December 2021
Testing Date	02 February 2022
Reported Date	14 February 2022
Sample No.	BI-395-02
Product Name	LUCA V-Defense Nasal Spray
Product Characteristics	Nasal spray
Packaging	Spray bottle
Active Ingredient	1. Sorbitan monolaurate 2. Lambda Carrageenan 3. Sodium Hydroxide 4. Eucalyptol 5. L-menthol
Supplier	LUCA AICELL INC.
Distributor	ML (THAILAND) CO., LTD
Reg. No.	-
Lot No.	-
Mfg. Date	-
Exp. Date	-
Size of Sample	20 ml
No. of Samples	1 bottle
TEST SYSTEM	
Test Method	Virus Inhibition Assay and 50% Tissue Culture Infectious Dose Assay (TCID50)
Reference Standard	ASTM E1053-20: Standard Practice to Assess Virucidal Activity of Chemicals Intended for Disinfection of Inanimate, Nonporous Environmental Surfaces
Test Organisms	Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) (Human Isolated) Titer = $1x10^8$ TCID50/ml.

Department of Microbiology and Immunology, Faculty of Tropical Medicine, Mahidol University
420/6 Ratchawithi Rd Bangkok 10400 Thailand Tel (66) 0-2306-9172 0-2354-9100-4 # 1597 Fax (66) 0-2643-5583

MAHIDOL UNIVERSITY

RESULTS

The purpose of this study was to determine the virucidal efficacy of "LUCA V-Defense Nasal Spray" against Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) (Human Isolated). At the concentrated solution with a contact time of 1 minute, the tested product has the efficacy as shown in the table.

Product	Testing concentration	Contact time	Result	
			Efficacy (%)	Log Reduction
LUCA V-Defense Nasal Spray	Conc.	1 minute	99.70%	2.520

(Assistant Professor Akaniti Jittmittraphap)
Scientist
14 February 2022

(Associate Professor Pornsawan Leaungwutiwong)
Technical Manager
14 February 2022

Test report only applies to the product mentioned in the test report.
Test report may not be duplicated in whole or in part without prior written permission.
Test report does not authorize to use as advertising materials.

Department of Microbiology and Immunology, Faculty of Tropical Medicine, Mahidol University
420/6 Ratchawithi Rd Bangkok 10400 Thailand Tel (66) 0-2306-9172 0-2354-9100-4 # 1597 Fax (66) 0-2643-5583

Product	Testing concentration	Contact time	Result	
			Efficacy (%)	Log Reduction
LUCA V-Defense Nasal Spray	Conc.	1 minute	99.70%	2.520

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Papers related to efficacy (1/4)

As a result of testing the carrageenan coating ability, it was confirmed that the multi-layer composition was perfectly coated on the surface and protected by forming a nano-sized physical film.

K-carrageenan/chitosan nanolayered coating for controlled release of a model bioactive compound

Innovative Food Science and Emerging Technologies 16 (2012) 227–232

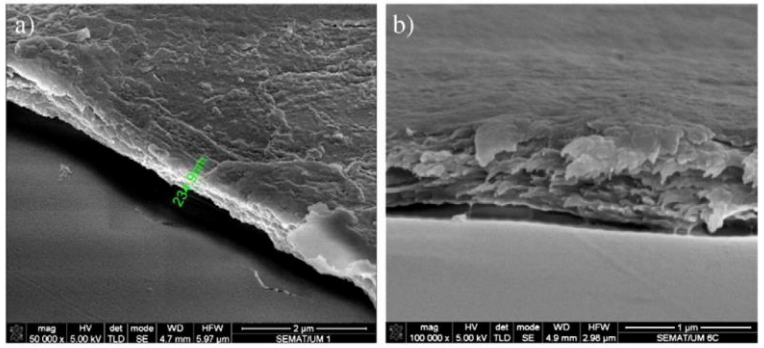

Fig. 4. SEM images of the κ-carrageenan/chitosan coating with MB in the 6th layer. Thickness of the layers (a). Detail of the structure of the layers (b).

- Carrageenan and chitosan nanolayers were demonstrated using equipment capable of measuring nanoscale, such as SEM images.
- The SEM image of the coating with MB in the 6th layer was shown as an example.
- The total thickness of the carrageenan/chitosan layers was 234.9 nm (Fig.4 a).

ELSEVIER

- Related paper https://repositorium.sdum.uminho.pt/bitstream/1822/23356/1/1-s2.0-S1466856412000902-main.pdf

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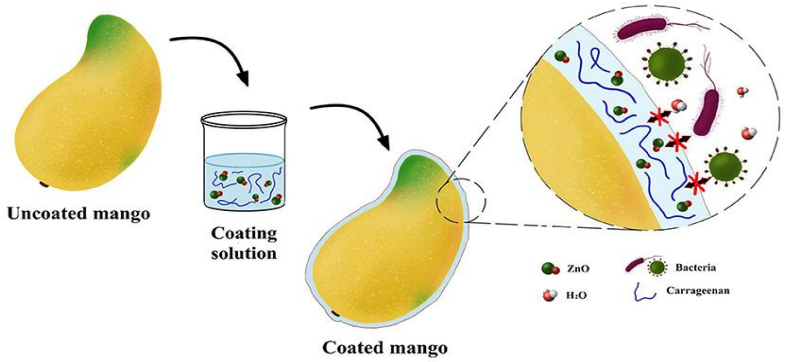
Papers related to efficacy (2/4)

As a result of the carrageenan film formation experiment, excellent coating ability and film retention ability were confirmed.

Recent advances in carrageenan-based films for food packaging applications

Frontiers in Nutrition, 10.3389 09 Sep. 2022



- The film-forming function of carrageenan and its principle were explained, and its application was demonstrated.
- As one of the methods, carrageenan was coated on fruit (mango), and the coated fruit was fresher for 14 days than the uncoated fruit.
- Because the addition of zinc oxide nanoparticles allowed the composite coating to significantly increase the tensile strength by 43%, reduce the water vapor transmission by 9%, and inhibit the growth of E. coli, compared with that of pure carrageenan coatings.

- Related paper https://pubmed.ncbi.nlm.nih.gov/36159449/

Papers related to efficacy (3/4)

It has been confirmed that carrageenan is a safe ingredient that is not absorbed into the human body because it has a large molecular weight and cannot be absorbed into the nasal mucosa or skin.

Non-Clinical Safety Evaluation of Intranasal Iota-Carrageenan

PLOS ONE | DOI:10.1371/journal.pone.0122911, April 13, 2015

Table 1. Comparison of P_{app} Values for Indicated Test Compounds across Bovine Nasal Mucosa.

	pH 7.5 P_{app} [x 10^{-6} cm/s]	pH 5.5 P_{app} [x 10^{-6} cm/s]
Sodium Fluorescein	11.17 ± 1.02	5.20 ± 2.12
FD10	0.51 ± 0.51	0.30 ± 0.09
FD40	0.18 ± 0.13	0.31 ± 0.24
FD70	0.07 ± 0.06	0.17 ± 0.10
MANT	17.62 ± 1.19	11.41 ± 4.59
MANT-iota-carrageenan	< 0.01	< 0.01

Data are means ±SD of 3 (MANT) or 5 (all other compounds) experiments.
P_{app} = apparent permeability coefficient.

doi:10.1371/journal.pone.0122911.t001

- It was confirmed that carrageenan was not absorbed into Bovine Nasal Mucosa by mixing MANT dye with carrageenan.
- MANT dye is a substance absorbed by Bovine Nasal Mucosa, but it was measured that it was not absorbed by Bovine Nasal Mucosa when mixed with carrageenan.
- A pH of 7.5 indicates normal bovine nasal mucosa and a pH of 5.5 indicates inflamed bovine nasal mucosa.


PLOS ONE

Non-Clinical Safety Evaluation of Intranasal Iota-Carrageenan

Abstract

Introduction

- Related paper https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0122911

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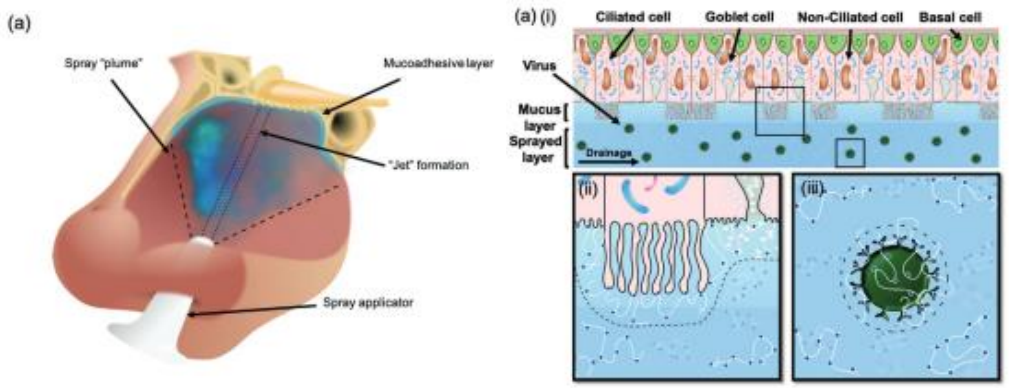
Papers related to efficacy (4/4)

Nasal sprays have been shown to be a very effective way to block the transmission of the virus to humans.

Formulation of a Composite Nasal Spray Enabling Enhanced Surface Coverage and Prophylaxis of SARS-CoV-2

July 2021 Advanced Materials 33(26):2008304



- On application, nasal sprays directly contact the nasal mucosa lining the epithelium.
- Demonstration of potential removal of the virus via trapping within the sprayed layer and elimination through natural nasal clearance mechanisms (sneezing/nose-blowing/swallowing).
- Demonstration of potential blocking of virus uptake into the cells as the polymer creates a steric barrier across the cell interface.
- And demonstration of potential inhibition of virus uptake by creating a steric barrier around the interface of the virus.


RESEARCH ARTICLE

ADVANCED MATERIALS

Formulation of a Composite Nasal Spray Enabling Enhanced Surface Coverage and Prophylaxis of SARS-COV-2

Richard J. A. Moakes,* Scott P. Davies, Zania Stamataki, and Liam M. Grover*

- Related paper
https://www.researchgate.net/publication/352025483_Formulation_of_a_Composite_Nasal_Spray_Enabling_Enhanced_Surface_Coverage_and_Prophylaxis_of_SARS-COV-2

LUCA AICell

Menthol Scent

LUCA V-Defense Nasal Spray contains everyone's favorite menthol scent, you can use it comfortably.

LUCA AICell

Pre-Clinical Report

The safety test results have been confirmed to be safe as if it is harmless to the human body by the authentication institution.

【 Cytotoxicity Test 】

It does not cause cytotoxicity reactions

【 Intracutaneous Reactivity Test】

There are no adverse reactions as a result of the intracutaneous reactivity test

【 Skin Sensitization Test 】

It does not cause skin sensitization reactions

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Test Report

The stability test results, such as container extractable, shelf-life, and loss on drying test, all passed without problems.

【 Container Extractable Test 】

There is no adverse reaction in the results of the elution test of containers, such as property, pH, and heavy metals

【 Shelf-Life Test】

All test items, including microbial testing within 2 years of validity and 6 months of opening, have been passed

【 Loss on Drying Test 】

Loss on drying test passed

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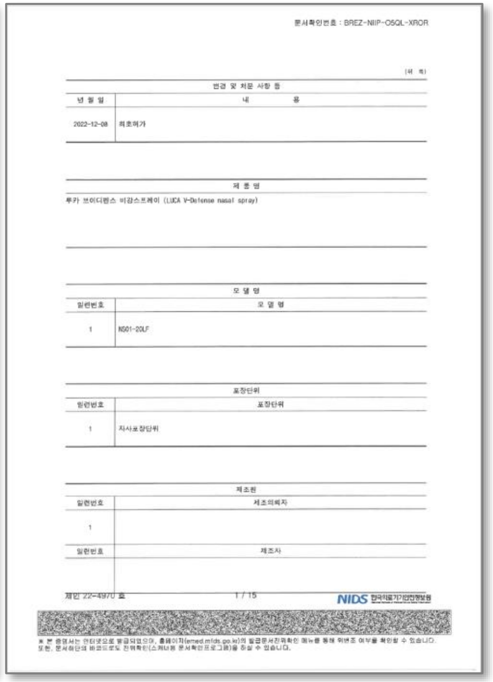
Certifications

Obtained permission for manufacturing nasal spray medical device and domestic/export product permission from the Ministry of Food and Drug Safety of Korea (MFDS).

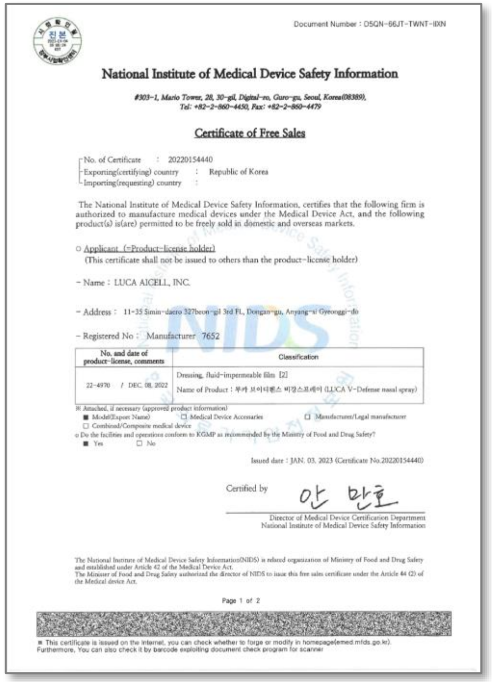
제인 22-4970 호

의료기기 제조 인증서

한국의료기기안전정보원장 (인)



루카 브이디펜스 비강스프레이 (LUCA V-Defense nasal spray)



National Institute of Medical Device Safety Information

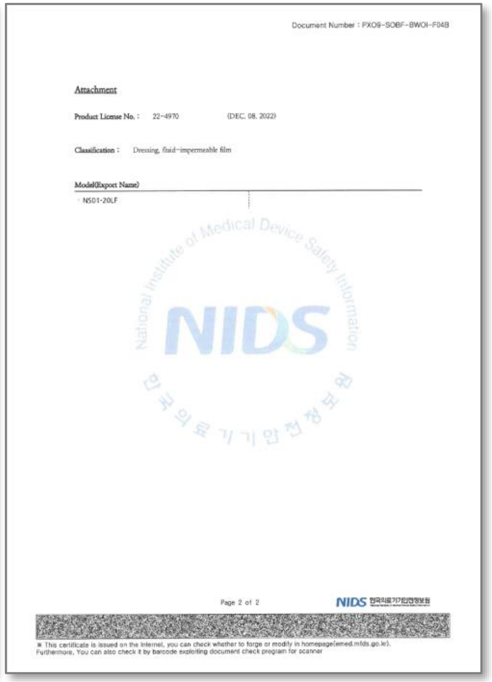
Certificate of Free Sales

- Name : LUCA AICELL, INC.

Issued date : JAN. 03. 2023

Director of Medical Device Certification Department
National Institute of Medical Device Safety Information

Page 1 of 2



Attachment

Product License No. : 22-4970 (DEC. 08. 2022)

Classification : Dressing, fluid-impermeable film

Model(Export Name)

NS01-20LF

Page 2 of 2

Certifications

LUCA AICell has obtained the Medical Device Certificate of GMP and ISO13485:2016.

인정번호(No.) : KCL-AABA-15367

의료기기 제조 및 품질관리 기준 적합인정서
(Certificate of GMP)

■ 업소명/허가번호 (Company name of Applicant / License No.)

주식회사 루카에이아이셀/제 7652 호
LUCA AICELL, INC.

■ 업소 소재지 (Company address of Applicant)

경기도 안양시 동안구 시민대로327번길 11-35 3층(관양동)
11-35, Simin-daero 327beon-gil 3rd FL, Dongan-gu, Anyang-si, Gyeonggi-do, 14055, Republic of Korea

■ 제조소명 (Name of Manufacturer)

제 조 자 : 주식회사 루카에이아이셀(LUCA AICELL, INC.)

■ 제조소 소재지 (Address of Manufacturer)

제 조 자 : 경기도 안양시 동안구 시민대로327번길 11-35, 3층(관양동)
11-35, Simin-daero 327beon-gil 3rd FL, Dongan-gu, Anyang-si, Gyeonggi-do, 14055, Republic of Korea

■ 품목군 (Category)

체외용 의료용품(Medical Supplies for External Body Part)

의료기기 제조 및 품질관리기준에 적합함을 인정합니다.
(We hereby certify that the above manufacturer complies with Korea Good Manufacturing Practices of Medical Devices for the product group listed above)

발행일자(Date of Issue) : 2022. 09. 26
유효기간(Date of Expiration) : 2025. 09. 25

KCL (재)한국건설생활환경시험연구원장
Korea Conformity Laboratories

International Certification Registrar

Certificate
of Registration

This is to certify that :

LUCA AICELL, INC.

11-35, Simin-daero 327beon-gil 3rd FL, Dongan-gu, Anyang-si, Gyeonggi-do, 14055, Republic of Korea

Has been assessed by International Certification Registrar Ltd., in respect of their Medical Device Quality Management Systems and found to comply with

ISO 13485:2016

Approval is hereby granted for registration providing the rules and conditions relating to certification are observed at all times.

Certification Scope

1. Design, Development and Production of In-Vitro Diagnostic Medical Devices - Immunoassay Reagent Kits
2. Design, Development and Production of Medical Devices - Dressing, fluid-impermeable film

Certification Date : 26th May 2022 Initial Issued Date : 03rd May 2021
Certificate Issue Date : 07th November 2022 Expiration Date : 02nd May 2024
Certificate No. : MK000177

※ This certificate is valid by completion of surveillance audit which is conducted within 12 months from the certification date.
※ Refer to appendix for detailed activities and location of each sites.

The Seal of ICR Limited was here to affixed in the presence of :

President

KAB-MC-02

International Certification ICR REGISTERED FIRM Registrar Ltd.

ICR Co., Ltd. 1501, Daerung post tower 6th, 90-3, Guro-dong, Geumcheon-gu, Seoul, Korea http://www.icrqa.com

LUCA AICell

Certifications

This is to certify that LUCA AICell has obtained US FDA Registration & Listing Clearance on the device below.

FDA

Certificate of FDA Registration & Listing Clearance

Awarded to:

LUCA AICell

3rd floor, 11-35, Simin-daero 327beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, Republic of Korea

This is to certify that **LUCA AICell**. has obtained FDA Registration & Listing Clearance on the device below.

Device(Product Code) :	**KCO**
Listing Number :	**D493370**
Registration No :	**3022764539**
Owner/Operator Number:	**10085130**
Model Name :	**LUCA V-Defense Nasal Spray, NS01-20LF**
Registration will be valid through	**Dec 31, 2023.**

Presented by: Official Correspondent, Consultant and U.S. FDA Designated Agent,

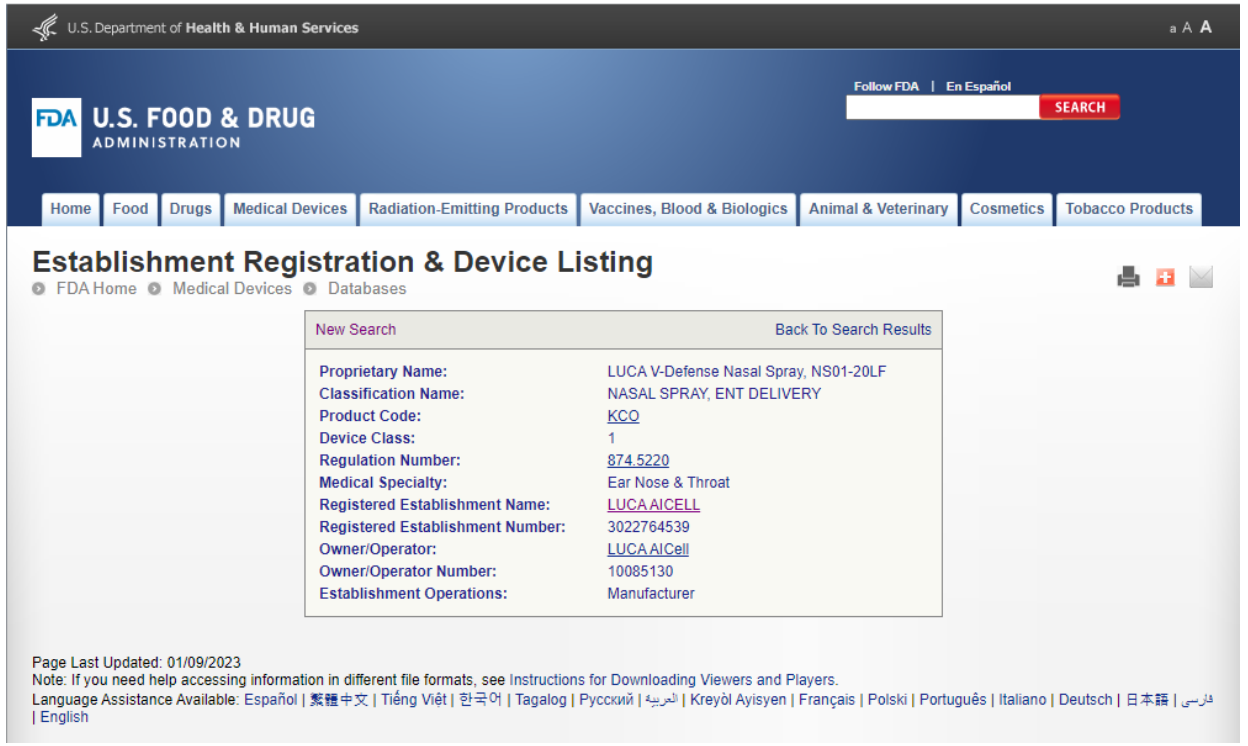
CJ Park/Priscilla Chung

CII Co.,Ltd & LK Consulting Group USA, Inc

LUCA AICell

Certifications

This is to certify that LUCA AICell has obtained US FDA Registration & Listing Clearance on the device below.

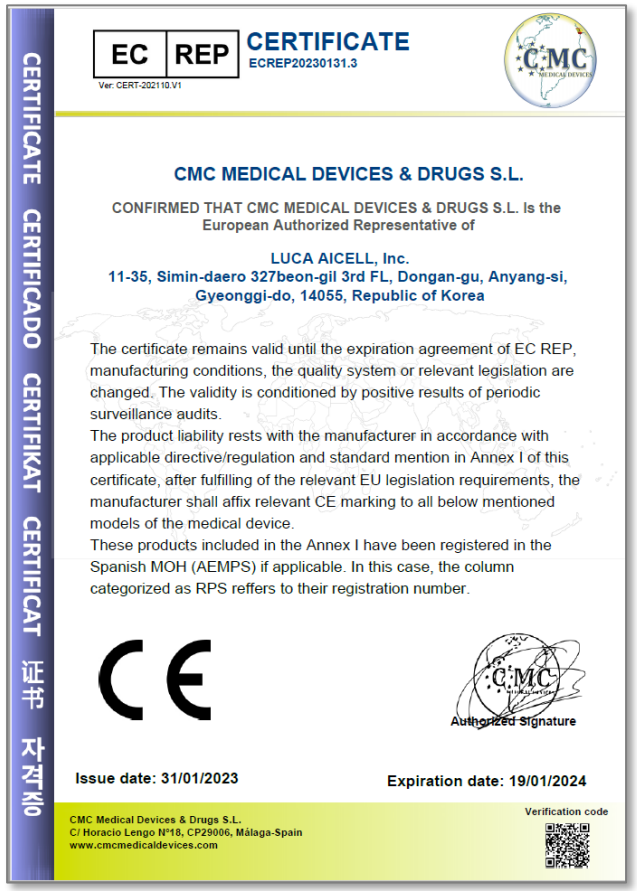


https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfRL/rl.cfm?lid=818572&lpcd=KCO

LUCA AICell

Certifications

LUCA AICell has obtained European CE MDR certification.



CERTIFICATE CERTIFICADO CERTIFIKAT CERTIFICAT 证书 자격증

EC REP **CERTIFICATE**
ECREP20230131.3
Ver: CERT-202110.V1

CMC MEDICAL DEVICES & DRUGS S.L.

CONFIRMED THAT CMC MEDICAL DEVICES & DRUGS S.L. Is the European Authorized Representative of

LUCA AICELL, Inc.
11-35, Simin-daero 327beon-gil 3rd FL, Dongan-gu, Anyang-si, Gyeonggi-do, 14055, Republic of Korea

The certificate remains valid until the expiration agreement of EC REP, manufacturing conditions, the quality system or relevant legislation are changed. The validity is conditioned by positive results of periodic surveillance audits.
The product liability rests with the manufacturer in accordance with applicable directive/regulation and standard mention in Annex I of this certificate, after fulfilling of the relevant EU legislation requirements, the manufacturer shall affix relevant CE marking to all below mentioned models of the medical device.
These products included in the Annex I have been registered in the Spanish MOH (AEMPS) if applicable. In this case, the column categorized as RPS reffers to their registration number.

CE

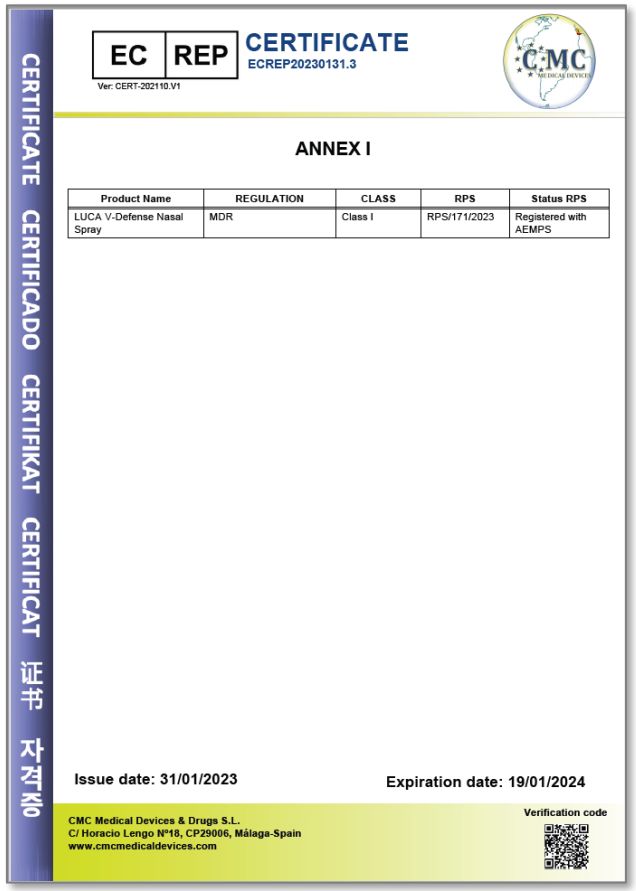
Authorized Signature

Issue date: 31/01/2023

Expiration date: 19/01/2024

Verification code

CMC Medical Devices & Drugs S.L.
C/ Horacio Lengo Nº18, CP29006, Málaga-Spain
www.cmcmedicaldevices.com



CERTIFICATE CERTIFICADO CERTIFIKAT CERTIFICAT 证书 자격증

EC REP **CERTIFICATE**
ECREP20230131.3
Ver: CERT-202110.V1

ANNEX I

Product Name	REGULATION	CLASS	RPS	Status RPS
LUCA V-Defense Nasal Spray	MDR	Class I	RPS/171/2023	Registered with AEMPS

Issue date: 31/01/2023

Expiration date: 19/01/2024

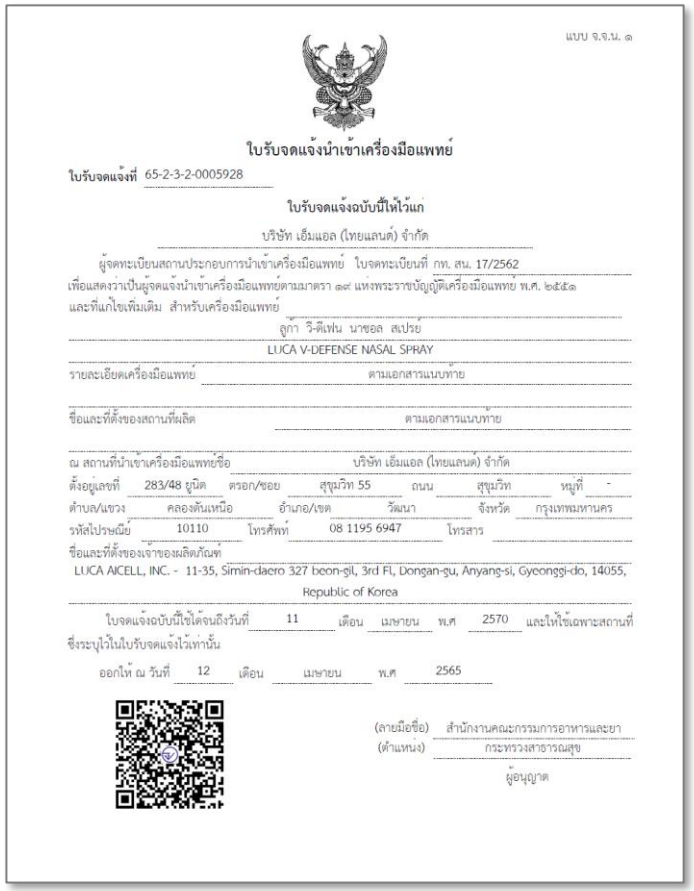
Verification code

CMC Medical Devices & Drugs S.L.
C/ Horacio Lengo Nº18, CP29006, Málaga-Spain
www.cmcmedicaldevices.com

LUCA AICell

Certifications

LUCA AICell has obtained import and marketing authorization from the Thai FDA.



แบบ จ.จ.น. ๑

ใบรับจดแจ้งนำเข้าเครื่องมือแพทย์

ใบรับจดแจ้งที่ 65-2-3-2-0005928

ใบรับจดแจ้งฉบับนี้ให้ไว้แก่

บริษัท เอ็มแอล (ไทยแลนด์) จำกัด

ผู้จดทะเบียนสถานประกอบการนำเข้าเครื่องมือแพทย์ ใบจดทะเบียนที่ กท. สน. 17/2562

เพื่อแสดงว่าเป็นผู้จดแจ้งนำเข้าเครื่องมือแพทย์ตามมาตรา ๑๙ แห่งพระราชบัญญัติเครื่องมือแพทย์ พ.ศ. ๒๕๕๑ และที่แก้ไขเพิ่มเติม สำหรับเครื่องมือแพทย์

ลูกา วี-ดีเฟน นาซอล สเปรย์

LUCA V-DEFENSE NASAL SPRAY

รายละเอียดเครื่องมือแพทย์ ตามเอกสารแนบท้าย

ชื่อและที่ตั้งของสถานที่ผลิต ตามเอกสารแนบท้าย

ณ สถานที่นำเข้าเครื่องมือแพทย์ชื่อ บริษัท เอ็มแอล (ไทยแลนด์) จำกัด

ตั้งอยู่เลขที่ 283/48 ยูนิต ตรอก/ซอย สุขุมวิท 55 ถนน สุขุมวิท หมู่ที่ -

ตำบล/แขวง คลองตันเหนือ อำเภอ/เขต วัฒนา จังหวัด กรุงเทพมหานคร

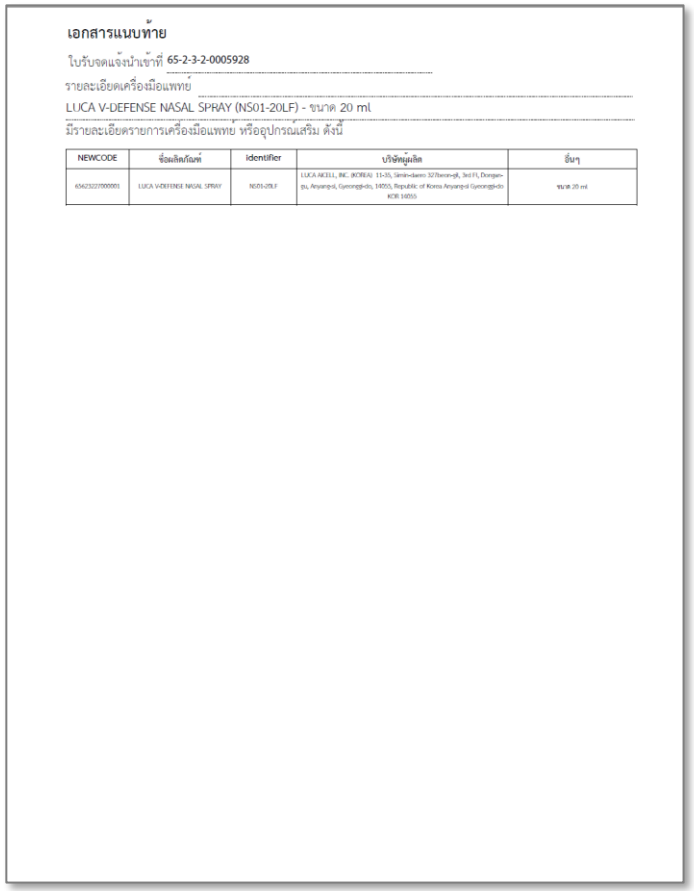
รหัสไปรษณีย์ 10110 โทรศัพท์ 08 1195 6947 โทรสาร

ชื่อและที่ตั้งของเจ้าของผลิตภัณฑ์ LUCA AICELL, INC. - 11-35, Simin-daero 327 beon-gil, 3rd Fl, Dongan-gu, Anyang-si, Gyeonggi-do, 14055, Republic of Korea

ใบจดแจ้งฉบับนี้ใช้ได้จนถึงวันที่ 11 เดือน เมษายน พ.ศ 2570 และให้ใช้เฉพาะสถานที่ซึ่งระบุไว้ในใบรับจดแจ้งไว้เท่านั้น

ออกให้ ณ วันที่ 12 เดือน เมษายน พ.ศ 2565

(ลายมือชื่อ) สำนักงานคณะกรรมการอาหารและยา
(ตำแหน่ง) กระทรวงสาธารณสุข
ผู้อนุญาต



เอกสารแนบท้าย

ใบรับจดแจ้งนำเข้าที่ 65-2-3-2-0005928

รายละเอียดเครื่องมือแพทย์

LUCA V-DEFENSE NASAL SPRAY (NS01-20LF) - ขนาด 20 ml

มีรายละเอียดรายการเครื่องมือแพทย์ หรืออุปกรณ์เสริม ดังนี้

NEWCODE	ชื่อผลิตภัณฑ์	identifier	บริษัทผู้ผลิต	อื่นๆ
8542322070000001	LUCA V-DEFENSE NASAL SPRAY	NS01-20LF	LUCA AICELL, INC. (KOREA) 11-35, Simin-daero 327beon-gil, 3rd Fl, Dongan-gu, Anyang-si, Gyeonggi-do, 14055, Republic of Korea Anyang-si Gyeonggi-do KOR 14055	ขนาด 20 ml

LUCA AICell

Package Information

Box Package Information

Model#	Product Name	Product Box Info		RRP Box Info			Carton Box Info			
		Size(mm)	Weight(g)	Q'ty(EA)	Size(mm)	Weight(Kg)	Q'ty(EA)	Q'ty(RRP)	Size(mm)	Weight(Kg)
NS01-20LF	LUCA V-Defense Nasal Spray	35x35x115	40	10	185x75x119.5	0.435	180	18	575x480x140	8.50

Shipping Information

Container Size & Type	CT/Pallet	Pallet size(cm)	Pallet/Container	Q'ty on the Pallet (EA)	Additional Q'ty in CT (EA)	Total Q'ty (EA)	Total Weight (Kg)
20FT Reefer Container	52	110x110x211	8	74,880	15,120	**90,000**	**4,298**
40'HQ Reefer Container	60	110x110x242	20	216,000	12,240	**228,240**	**10,898**
20FT Container	52	110x110x211	10	93,600	-	**93,600**	**4,480**
40'HQ Container	60	110x110x242	20	216,000	24,480	**240,480**	**11,476**

LUCA AICell

LUCA
V-Defense
Nasal Spray

주식회사 루카에이아이셀 (LUCA AICell Inc.)

✉ sales@lucaaicell.com

3rd floor, 11-35, Simin-daero 327beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do 14055, Republic of Korea

031-8091-1000

031-8091-0010