



**CAREPLUS**

# **NITRILEGLOVES**

CarePlus Nitrilecare® Examination Gloves - Powder Free





# CAREPLUS NitrileCare®

## Nitrile Examination Gloves

The NitrileCare® nitrile examination glove is manufactured in Malaysia by CarePlus Global, who for over 30 years have produced top quality gloves with consistency and reliability.

The NitrileCare® nitrile examination glove has a premium finish, meeting the ASTM Chemo/ Viral Barrier/ ISO quality standards and has FDA 510(k) approval. It has been tested for use with Chemotherapy Drugs for ultimate hand protection you can always trust.



### Multi-Purpose



Hospital



Dental



Laboratory



Cleaning



Industry



Hotel



Cosmetic



Food

# NitrileCare® Examination Gloves

## Specifications & Certifications



### Multi-Purpose



The NitrileCare® glove is manufactured in Malaysia and distributed to North America. This 3.5gm indigo blue glove meets ISO quality and ASTM Chemo/ Viral Barrier standards and holds FDA 510(k) approval.

### Product Technical Data Sheet

Type	Powder-Free, Examination Glove		
Specification	Non-Sterile/Disposable		
Cuff	Beaded		
Weight	3.5gm +/- 0.3gm (0.12 fl oz.)		
Colour	Indigo Blue		
Primary Material	Nitrile		
Surface	External: Finger Textured		
Powder Control	<=2mg/glove		
Packaging	100 pcs/box		
Size & Product Code	Small:	MS60412	
	Medium:	MS60413	
	Large:	MS60414	
	Extra-large:	MS60415	
Product Name	NitrileCare® Examination Gloves		
Hand Design	Ambidextrous		
Origin of Manufacturer	Malaysia		

### Product Properties

Test Method	Characteristics		Requirement	Median
ASTM D6319	Dimensions (mm)	Width (M)	95 ± 10	95
		Length (M)	Min 230	240 (9,5*)
	Thickness single (mm)	Finger	Min 0.05	0.10 (4.0mils)
		Palm	Min 0.05	0.08 (3.1mils)
ASTM D5151	Freedom from holes		No leakage	NA
ASTM D412	Before accelerated aging.			
	Tensile Strength (MPa)		Min 14	30
	Ultimate elongation (%)		Min 500	650
ASTM D573	After accelerated aging at (70±2 °C 166±2 hr).			
	Tensile Strength (MPa)		Min 14	14
	Ultimate elongation (%)		Min 400	400

### Certifications



US Standards	ASTM 6319, ASTM 6978 Chemo/ ASTM F1671 Viral Barrier
FDA Information	FDA 510(k) - K172015
Quality Standards	ISO 9001:2015, EN ISO 13485:2016

# 510(k) Premarket

3/5/2021

510(k) Premarket Notification



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## 510(k) Premarket Notification



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<b>Device Classification Name</b>	<a href="#">Polymer Patient Examination Glove</a> <sup>22</sup>
<b>510(K) Number</b>	K172015
<b>Device Name</b>	POWDER FREE NITRILE EXAMINATION GLOVES, BLUE (COLORED)
<b>Applicant</b>	Careglove Global Sdn Bhd Lot 17479, Lrg Senawang 3/2, Off Jln Senawang 3, Senawang In Seremban, MY 70450
<b>Applicant Contact</b>	Lim Kwee Shyan
<b>Correspondent</b>	Careglove Global Sdn Bhd Lot 17479, Lrg Senawang 3/2, Off Jln Senawang 3, Senawang In Seremban, MY 70450
<b>Correspondent Contact</b>	Lim Kwee Shyan
<b>Regulation Number</b>	<a href="#">880.6250</a> <sup>23</sup>
<b>Classification Product Code</b>	<a href="#">LZA</a> <sup>24</sup>
<b>Date Received</b>	07/03/2017
<b>Decision Date</b>	09/26/2017
<b>Decision</b>	Substantially Equivalent (SESE)
<b>Regulation Medical Specialty</b>	General Hospital
<b>510k Review Panel</b>	General Hospital
<b>Summary</b>	<a href="#">Summary</a> <sup>25</sup>
<b>Type</b>	Traditional
<b>Reviewed By Third Party</b>	No
<b>Combination Product</b>	No

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510(k) Premarket Notification

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U.S. Food and Drug Administration  
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Silver Spring, MD 20993  
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## Establishment Registration & Device Listing

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**Proprietary Name:** POWDER FREE NITRILE EXAMINATION GLOVES  
BLUE (COLORED)  
**Classification Name:** POLYMER PATIENT EXAMINATION GLOVE  
**Product Code:** [LZA](#)<sup>6</sup>  
**Device Class:** 1  
**Regulation Number:** [880.6250](#)<sup>7</sup>  
**Medical Specialty:** General Hospital  
**Registered Establishment Name:** [CAREGLOVE GLOBAL SDN BHD](#)<sup>8</sup>  
**Registered Establishment Number:** 3014164734  
**Premarket Submission Number:** [K172015](#)<sup>9</sup>  
**Owner/Operator:** [Careglove Global Sdn Bhd](#)<sup>10</sup>  
**Owner/Operator Number:** 10051431  
**Establishment Operations:** Contract Manufacturer; Manufacturer

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# ASTM D6978 (1)



Testing. Development. Problem Solving.

September 14, 2020

## TEST REPORT

PN 155473

### PHARMACEUTICAL SERVICES

Prepared For:  
 Murni Razali  
 CareGlove Global Sdn. Bhd.  
 Lot 17479 Senawang Industrial Estate  
 Lorong Senawang 3/2 Kawasan Perusahaan Senawang Seremban, Negeri Sembilan 70450  
 Malaysia

Prepared By:

*Tiffany Heller*  
 Tiffany Heller  
 Manager, Pharmaceutical Services

Approved By:

*Ana C Barbur*  
 Ana C Barbur, M.S.  
 Vice President, Analytical & Chemical Services

Rev 101218



An A2LA ISO 17025 Accredited Testing Laboratory — Certificate Numbers 255.01 & 255.02  
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Testing. Development. Problem Solving.

September 14, 2020

Murni Razali  
 CareGlove Global Sdn. Bhd.

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 PN 155473

**SUBJECT:** Permeation testing per ASTM D6978 on sample submitted by the above company.

**RECEIVED:** One (1) glove type identified as; Blue Nitrile Examination Gloves, Powder Free, Sample ID: M29070.

#### TEST CHEMICALS:

Table 1. List of the Testing Drugs and their Sources

TESTING CHEMOTHERAPY DRUGS	DRUG SOURCE
Carmustine (BCNU), 3.3 mg/ml (3,300 ppm)	USP; Lot# R116Y0; Expiration 07/2021
Cisplatin, 1.0 mg/ml (1,000 ppm)	Accord; Lot# P2001296; Expiration 01/2022
Cyclophosphamide (Cytoxan), 20.0 mg/ml (20,000 ppm)	Accord; Lot# 19112225; Expiration 10/2021
Dacarbazine, 10.0 mg/ml (10,000 ppm)	Teva; Lot# 313254148; Expiration 09/2021
Doxorubicin HCl, 2.0 mg/ml (2,000 ppm)	WestWard; Lot# BJ0051; Expiration 06/2021
Etoposide, 20.0 mg/ml (20,000 ppm)	Teva; Lot# 313254858; Expiration 07/2021
Fluorouracil, 50.0 mg/ml (50,000 ppm)	Accord; Lot# P2001167; Expiration 01/2022
Ifosfamide, 50 mg/ml (50,000 ppm)	Baxter Healthcare; Lot# 9A018G; Expiration 01/2022
Mitoxantrone, 2 mg/ml (2,000 ppm)	USP; Lot# J0F278; Expiration 07/2021
Paclitaxel, 6.0 mg/ml (6,000 ppm)	Teva; Lot# 19K24KA; Expiration 11/2021
ThioTepa, 10.0 mg/ml (10,000 ppm)	USP; Lot # R11380; Expiration 04/2021
Vincristine Sulfate, 1.0 mg/ml (1,000 ppm)	Hospira; Lot# G057139AA; Expiration 03/31/2021

#### COLLECTION MEDIA:

Table 2. Collection Media for Test Drug

TEST DRUG AND CONCENTRATION	COLLECTION MEDIUM
Carmustine (BCNU), 3.3 mg/ml (3,300 ppm)	10% Ethanol Aqueous Solution
Cisplatin, 1.0 mg/ml (1,000 ppm)	Distilled Water
Cyclophosphamide (Cytoxan), 20.0 mg/ml (20,000 ppm)	Distilled Water
Dacarbazine, 10.0 mg/ml (10,000 ppm)	Distilled Water
Doxorubicin HCl, 2.0 mg/ml (2,000 ppm)	Distilled Water
Etoposide, 20.0 mg/ml (20,000 ppm)	Distilled Water
Fluorouracil, 50.0 mg/ml (50,000 ppm)	9.20 pH Sodium Hydroxide Solution
Ifosfamide, 50 mg/ml (50,000 ppm)	Distilled Water
Mitoxantrone, 2 mg/ml (2,000 ppm)	Distilled Water
Paclitaxel, 6.0 mg/ml (6,000 ppm)	30% Methanol Aqueous Solution
ThioTepa, 10.0 mg/ml (10,000 ppm)	Distilled Water
Vincristine Sulfate, 1.0 mg/ml (1,000 ppm)	Distilled Water

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# ASTM D6978 (2)

September 14, 2020

Murni Razali  
CareGlove Global Sdn. Bhd.

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PN 155473

## TESTING CONDITIONS:

Standard Test Method Used: ASTM D6978  
Analytical Method: UV/VIS Spectrometry  
Testing Temperature: 35.0°C ± 2.0  
Collection System: Closed Loop  
Specimen Area Exposed: 5.067 cm<sup>2</sup>  
Selected Data Points: 25/test  
Number of Specimens Tested: 3/test  
Location Sampled From: Cuff

## DETECTION METHOD OF CHEMICAL PERMEATION:

### UV/VIS ABSORPTION SPECTROMETRY:

Instrument: Perkin Elmer UV/VIS Spectrometer Lambda 25

UV/VIS Absorption Spectrometry was used to measure the absorbance of test chemicals, which permeated through the specimens into the collection medium. The collection medium was circulated in a closed loop through the testing period. Data collection was performed according to the programmed schedule by means of UV Winlab software from the Perkin Elmer Corporation. The list of the characteristic wavelengths is shown below.

Table 3. Characteristic Wavelengths used in UV/VIS Absorption Spectrometry

TESTING DRUG	WAVELENGTH (nm)
Carmustine (BCNU), 3.3 mg/ml (3,300 ppm)	229
Cisplatin, 1.0 mg/ml (1,000 ppm)	199
Cyclophosphamide (Cytosan), 20.0 mg/ml (20,000 ppm)	200
Dacarbazine, 10.0 mg/ml (10,000 ppm)	320
Doxorubicin HCl, 2.0 mg/ml (2,000 ppm)	232
Etoposide, 20.0 mg/ml (20,000 ppm)	205
Fluorouracil, 50.0 mg/ml (50,000 ppm)	269
Ifosfamide, 50 mg/ml (50,000 ppm)	200
Mitoxantrone, 2 mg/ml (2,000 ppm)	242
Paclitaxel, 6.0 mg/ml (6,000 ppm)	232
ThioTepa, 10.0 mg/ml (10,000 ppm)	199
Vincristine Sulfate, 1.0 mg/ml (1,000 ppm)	220

### SAMPLE CHARACTERISTICS:

Table 4. Thickness characteristics for the tested: Blue Nitrile Examination Gloves, Powder Free, Sample ID: M29070.

Testing Drug	Thickness (mm)			Average (mm)
	Sample 1	Sample 2	Sample 3	
Carmustine (BCNU)	0.059	0.064	0.066	0.063
Cisplatin	0.060	0.063	0.059	0.061
Cyclophosphamide (Cytosan)	0.056	0.062	0.059	0.059
Dacarbazine	0.060	0.062	0.062	0.061
Doxorubicin	0.063	0.058	0.068	0.063
Etoposide	0.057	0.063	0.062	0.060
Fluorouracil	0.062	0.061	0.063	0.062
Ifosfamide	0.062	0.066	0.061	0.063
Mitoxantrone	0.060	0.059	0.067	0.062
Paclitaxel	0.060	0.063	0.064	0.062
ThioTepa	0.067	0.063	0.061	0.064
Vincristine Sulfate	0.065	0.067	0.061	0.064
Weight/Unit Area (g/m <sup>2</sup> )	57.0			

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September 14, 2020

Murni Razali  
CareGlove Global Sdn. Bhd.

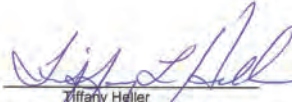
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## RESULTS:

Table 5. Permeation Test Results on testing of: Blue Nitrile Examination Gloves, Powder Free, Sample ID: M29070.

TEST CHEMOTHERAPY DRUGS	AVERAGE BREAKTHROUGH DETECTION TIME (Specimen 1/2/3) (Minutes)	AVERAGE STEADY STATE PERM. RATE (Specimen 1/2/3) (µg/cm <sup>2</sup> /minute)	OTHER OBSERVATIONS
Carmustine (BCNU), 3.3 mg/ml (3,300 ppm)	22.6 (22.6, 23.0, 23.2)	0.4 (0.4, 0.4, 0.4)	Moderate swelling and degradation
Cisplatin, 1.0 mg/ml (1,000 ppm)	>240 min.	N/A	Slight swelling and no degradation
Cyclophosphamide (Cytosan), 20.0 mg/ml (20,000 ppm)	>240 min.	N/A	Slight swelling and no degradation
Dacarbazine, 10.0 mg/ml (10,000 ppm)	>240 min.	N/A	Slight swelling and no degradation
Doxorubicin HCl, 2.0 mg/ml (2,000 ppm)	>240 min.	N/A	Slight swelling and no degradation
Etoposide, 20.0 mg/ml (20,000 ppm)	>240 min.	N/A	Slight swelling and no degradation
Fluorouracil, 50.0 mg/ml (50,000 ppm)	>240 min.	N/A	Slight swelling and no degradation
Ifosfamide, 50 mg/ml (50,000 ppm)	>240 min.	N/A	Slight swelling and no degradation
Mitoxantrone, 2 mg/ml (2,000 ppm)	>240 min.	N/A	Slight swelling and no degradation
Paclitaxel, 6.0 mg/ml (6,000 ppm)	>240 min.	N/A	Slight swelling and no degradation
ThioTepa, 10.0 mg/ml (10,000 ppm)	43.9 (44.3, 43.9, 48.7)	1.5 (1.5, 1.9, 1.2)	Slight swelling and degradation
Vincristine Sulfate, 1.0 mg/ml (1,000 ppm)	>240 min.	N/A	Slight swelling and no degradation

Prepared By:

  
Jeffrey Heller  
Manager, Pharmaceutical Services

Approved By:

  
Ana C Barbur, M.S.  
Vice President, Analytical & Chemical Services

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# ASTM F1671 Viral Barrier



**LGM PROPERTIES CORPORATION**  
(A Corporation of the Malaysian Rubber Board)  
**Global Testing and Consultancy for Rubber (G-TACr)**  
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E gtacr@lgmpc.com.my W www.gtacr.com.my  
*The Rubber Industry's Catalyst For Rubber Sector Related Samples*



## TEST REPORT

REPORT NO : VPT/2009/0007

SUBJECT : VIRUS PENETRATION

SUBMITTED BY : CAREGLOVE GLOBAL SDN BHD  
Lot 17479, Lorong Senawang 3/2  
Off Jalan Senawang 3, Senawang Industrial Estate  
70450 Seremban, Negeri Sembilan.

RECEIVED ON : September 28<sup>th</sup>, 2020

These results have been obtained on sample(s) submitted to us.

Condition of samples : Unused gloves with no wear or abrasion

Expected : No penetration of viral solution from inside the glove; any  
penetration above 10 pfu is considered failed. Expected recovery;  
100 ± 2%

Test objective : To determine that the viral solution did not penetrate > 10 pfu  
within the test period (viral leak < 10 pfu)

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G-TACR/TR2/Issue No.2



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*The Rubber Industry's Catalyst For Rubber Sector Related Samples*



## TEST REPORT

REPORT NO : VPT/2009/0007

SAMPLE DESCRIPTION : Blue Nitrile Examination, Powder Free 3.5g  
Product Code: MO-0820048

STANDARD TEST METHOD : ASTM F1671-07, Phi-X174 Bacteriophage Penetration Test

DATE OF TESTING : 05<sup>th</sup> - 06<sup>th</sup> October 2020


DATE OF REPORT : 07<sup>th</sup> October 2020

Sample Id	Plague Forming Unit	Requirement Virus Leak (Pfu)	Status
M0-0820048	NP	<10	PASS

*Note:*  
NP : No plaque formed  
VSF\* : Test results are acceptable if VSF > 0.8

*Disclaimer:*  
Test is performed to required specification (s) of the said standard (where applicable). Results reflect data obtained and/or observed from the samples provided for testing only. Results do not reflect shipment prior to the stated lot numbers, or condition of future shipment, nor does it reflect the quality of future production and manufacturing. Our organization is not liable for any mis-used of data or information

Yours Sincerely;

  
**(TAJUL ANUAR YAAKOB)**  
Technical Manager  
Biological Laboratory  
Global Testing and Consultancy for Rubber (G-TACr)  
47000 Sg Buloh, Selangor, Malaysia

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G-TACR/TR2/Issue No.2



# FDA Food Grade Test Report (1)



Test Report No. : CRSSA/200946876-CA46743

Date: 24<sup>th</sup> September 2020

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CAREGLOVE GLOBAL SDN. BHD.  
 LOT 17479, LORONG SENAWANG 3/2, OFF JALAN SENAWANG 3,  
 SENAWANG INDUSTRIAL ESTATE, 70450 SEREMBAN, NEGERI SEMBILAN.

The following sample(s) was/were submitted and identified by the applicant as:

**Blue Nitrile Examination Glove, Powder Free 3.5g**

Job Ref No. : 2020-09-14-018  
 Date of Sample Received : 14<sup>th</sup> September 2020  
 Testing Period : 14<sup>th</sup> September 2020 – 24<sup>th</sup> September 2020

Test Requested : Please refer to the results summary

Test Method & Results : Please refer to next page(s).

Result Summary :

Test Requested	Conclusion
US FDA 21 CFR 177.2600 (Rubber Articles) – Determination of Amount of Extractives	PASS

SIGNED FOR AND ON BEHALF OF  
 SGS (MALAYSIA) SDN BHD



CHEE TUCK CHOON  
 SECTION HEAD  
 IKM No. M/3983/6401/12/14

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Test Report No. : CRSSA/200946876-CA46743

Date: 24<sup>th</sup> September 2020

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Test Results :

**US FDA 21 CFR 177.2600 (Rubber Articles) – Determination of Amount of Extractives**

Method : With reference to US FDA 21 CFR 177.2600.

For use in contact with aqueous food:

Extractant	Test Condition	Result (mg/inch <sup>2</sup> )	Reporting Limit (mg/inch <sup>2</sup> )	Permissible Limit (mg/inch <sup>2</sup> )
Distilled Water	Reflux temperature for 7 hours	1.4	0.2	20
	Succeeding 2 hours of extraction	N.D.	0.2	1
<b>Comment</b>	--	<b>PASS</b>	--	--


For use in contact with fatty food:

Extractant	Test Condition	Result (mg/inch <sup>2</sup> )	Reporting Limit (mg/inch <sup>2</sup> )	Permissible Limit (mg/inch <sup>2</sup> )
n-Hexane	Reflux temperature for 7 hours	1.2	0.2	175
	Succeeding 2 hours of extraction	0.3	0.2	4
<b>Comment</b>	--	<b>PASS</b>	--	--

Sample Description : **Blue Nitrile Examination Glove, Powder Free 3.5g**

Note : 1. mg/inch<sup>2</sup> = milligram per square inch  
 2. N.D. = Not Detected

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# FDA Food Grade Test Report (2)

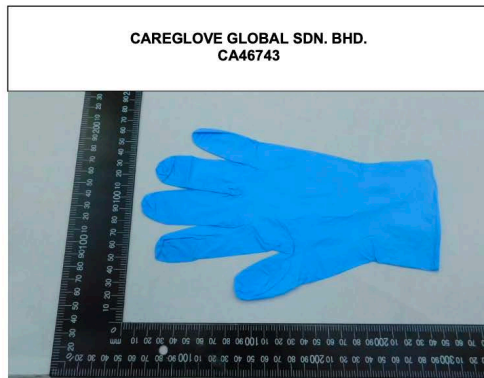


Test Report No. : CRSSA/200946876-CA46743

Date: 24<sup>th</sup> September 2020

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Sample Photo:



SGS authenticate the photo on the original report only

\*\*\* End of Report \*\*\*

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# ISO 9001



## CERTIFICATE



This is to certify that

### Careglove Global Sdn. Bhd.

Lot 17479, Lorong Senawang 3/2,  
Off Jalan Senawang 3,  
Senawang Industrial Estate,  
70450 Seremban, Negeri Sembilan,  
Malaysia.Senawang 3/2,

has implemented and maintains a **Quality Management System**.

#### Scope:

Manufacture of Non-sterile Powdered and Powder Free Latex Examination Gloves.

Manufacture of Sterile Powdered and Powder Free Latex Surgical Gloves.

Through an audit, documented in a report, it was verified that the management system fulfills the requirements of the following standard:

### ISO 9001 : 2015

Certificate registration no.	496791 QM15
Date of certification	2018-05-28
Valid until	2021-05-27



### DQS Certification (M) Sdn Bhd

Danny Ng  
Regional Managing Director

Accredited Body: DQS Malaysia, Suite 43-4 Setia Avenue, Jalan Setia Prima S U 13/S,  
Setia Alam Seksyen U 13, 40170 Shah Alam, Selangor - Malaysia

# ISO 13485



## CERTIFICATE



This is to certify that the company

### Careglove Global Sdn. Bhd.

Lot 17479, Lorong Senawang 3/2,  
Off Jalan Senawang 3,  
Senawang Industrial Estate,  
70450 Seremban, Negeri Sembilan  
Malaysia

has implemented and maintains a **Quality Management System**.

#### Scope:

Manufacture and supply of non-sterile powdered and powder free latex and nitrile examination gloves.  
Manufacture and supply of sterile powdered and powder free latex surgical gloves.

Through an audit, documented in a report, performed by DQS-Medizinprodukte GmbH, it was verified that the management system fulfills the requirements of the following standard:

### EN ISO 13485 : 2016

Certificate registration no.	496791 MP2016
Certificate unique ID	170707485
Effective date	2018-06-09
Expiry date	2021-06-08
Frankfurt am Main	2018-06-09



#### DQS Medizinprodukte GmbH

Sigrid Uhlemann  
Managing Director

Dr. Thorras Feldmann  
Head of Certification Body

August-Schanz-Straße 21, 60433 Frankfurt am Main,  
Tel. +49 (0) 89 95427-300, medical.devices@dqs-med.de

# EC Declaration



**CAREGLOVE GLOBAL SDN BHD**  
(933760-W)

Lot 17479, Lorong Senawang 3/2, Off Jalan Senawang 3,  
Senawang Industrial Estate, 70450 Seremban, Negeri Sembilan, Malaysia.  
Tel: 60-6-6782377, 60-6-6788377 Fax: 60-6-6785377  
Email: info@careglove.com

## EC Declaration of Conformity

according to the Medical Devices Directive 93/42/EEC

**Manufacture:** CAREGLOVE GLOBAL SDN. BHD.

**Address:** Lot 17479, Lorong Senawang 3/2, Off Jalan Senawang 3,  
Senawang Industrial Estate, 70450 Seremban, Negeri Sembilan,  
Malaysia.

**EC Representative:** Welkang Ltd.  
Suite B, 29 Harley Street, London W1G 9QR, UK.

**We, the manufacture, declare under our sole responsibility that the medical device (s)**

**Product Name:** Nitrile Examination Glove, Powdered and Powder Free

**Class:** I

**is in conformity with the relevant provisions and requirements of directive 93/42/EEC,  
as amended by Directive 2007/47/EEC.**

**Standards Applied:** EN 455 Part 1, 2 & 3  
ISO 11193-1  
ASTM D6319

**Authorised Signatory:**

**Lim Kwee Shyan**  
Managing Director

08<sup>th</sup> April 2020  
Date

Negeri Sembilan, Malaysia  
Place of Issue