

August 31, 2023

WRP Asia Pacific Sdn. Bhd. % Michael Scaglione U.S. Agent WRP USA Inc 3700 Massillon Road, Suite 340 Uniontown, Ohio 44685

Re: K230578

Trade/Device Name: Polyisoprene Surgical Glove (Unified Double Layer), Sterile, Tested for Use with

Chemotherapy Drugs and Fentanyl

Regulation Number: 21 CFR 878.4460

Regulation Name: Non-Powdered Surgeon's Glove

Regulatory Class: Class I, reserved Product Code: KGO, LZC, OPJ, QDO

Dated: July 24, 2023 Received: August 1, 2023

Dear Michael Scaglione:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. Although this letter refers to your product as a device, please be aware that some cleared products may instead be combination products. The 510(k) Premarket Notification Database located at https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfpmn/pmn.cfm identifies combination product submissions. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803) for devices or postmarketing safety reporting (21 CFR 4, Subpart B) for combination products (see https://www.fda.gov/combination-products/guidance-regulatory-information/postmarketing-safety-reporting-combination-products); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820) for devices or current good manufacturing practices (21 CFR 4, Subpart A) for combination products; and, if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to https://www.fda.gov/medical-device-problems.

For comprehensive regulatory information about medical devices and radiation-emitting products, including information about labeling regulations, please see Device Advice (https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance) and CDRH Learn (https://www.fda.gov/training-and-continuing-education/cdrh-learn). Additionally, you may contact the Division of Industry and Consumer Education (DICE) to ask a question about a specific regulatory topic. See the DICE website (https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/contact-us-division-industry-and-consumer-education-dice">https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/contact-us-division-industry-and-consumer-education-dice) for more information or contact DICE by email (DICE@fda.hhs.gov) or phone (1-800-638-2041 or 301-796-7100).

Sincerely,

Bifeng Qian -S

BiFeng Qian, M.D., Ph.D.
Assistant Director
DHT4B: Division of Infection Control
and Plastic Surgery Devices
OHT4: Office of Surgical
and Infection Control Devices
Office of Product Evaluation and Quality
Center for Devices and Radiological Health

Enclosure

DEPARTMENT OF HEALTH AND HUMAN SERVICES Food and Drug Administration

Indications for Use

Form Approved: OMB No. 0910-0120

Expiration Date: 06/30/2023 See PRA Statement below.

510(k) Number (if known)
K230578

Device Name
Polyisoprene Surgical Glove (Unified Double Layer), Sterile, Tested for Use with Chemotherapy Drugs and Fentanyl

Indications for Use (Describe)

A powder-free sterile surgeon's glove is a disposable device made of synthetic rubber intended to be worn on the hands of healthcare personnel as a barrier for protection against cross-contamination between the healthcare personnel and patient.

These gloves were tested for use with Chemotherapy Drugs as per ASTM D6978 Standard Practice for Assessment of Medical Gloves to Permeation by Chemotherapy Drugs:

Chemotherapy Drug Permeation

The following chemicals have been tested with these gloves.

| Chemotherapy Drug (Concentration) | Minimum Breakthrough Detection Time (Minutes) |
|-----------------------------------------|-----------------------------------------------|
| *Carmustine (BCNU) (3.3 mg/ml) | 67.6 |
| Cisplatin (1.0 mg/ml) | > 240 |
| Cyclophosphamide (Cytoxan) (20.0 mg/ml) | > 240 |
| Dacarbazine (10.0 mg/ml) | > 240 |
| Doxorubicin Hydrochloride (2.0 mg/ml) | > 240 |
| Etoposide (20.0 mg/ml) | > 240 |
| Fluorouracil (50.0 mg/ml) | > 240 |
| Ifosfamide (50.0 mg/ml) | > 240 |
| Methotrexate (25.0 mg/ml) | > 240 |
| Mitomycin C (0.5 mg/ml) | > 240 |
| Mitoxantrone (2.0 mg/ml) | > 240 |
| Paclitaxel (6.0 mg/ml) | > 240 |
| *Thiotepa (10.0 mg/ml) | 77.7 |
| Vincristine Sulfate (1.0 mg/ml) | > 240 |

*WARNING: Please note the following drugs have extremely low permeation times: Carmustine (BCNU): 67.6 minutes and Thiotepa: 77.7. Do not use with Carmustine and Thiotepa.

Fentanyl Concentration Breakthrough Detection Time in Minutes
Fentanyl Citrate Injection 100mcg/2mL No breakthrough up to 240 minutes

Type of Use (Select one or both, as applicable)

Prescription Use (Part 21 CFR 801 Subpart D)

Over-The-Counter Use (21 CFR 801 Subpart C)

CONTINUE ON A SEPARATE PAGE IF NEEDED.

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Date of Preparation: August 31, 2023

1.0 Submitter:

Name : Saravanan Ramasamy Address : WRP Asia Pacific Sdn. Bhd.

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Phone No. : +60 3 8706 1486 Fax No. : +60 3 8706 1557

2.0 Identification of the Subject Device:

Trade Name : Polyisoprene Surgical Glove (Unified Double Layer),

Sterile, Tested for Use with Chemotherapy Drugs and

Fentanyl

Common Name : Surgical Gloves

Classification Name : Non-powdered Surgeon's Glove

Device Classification : I

Regulation Number : 21 CFR 878.4460 Product Code : KGO, LZC, OPJ, QDO

3.0 Predicate Device:

| | Predicate |
|---------------------|-------------------------------------------------------------------------------------------------------------------------|
| Manufacturer | WRP Asia Pacific Sdn. Bhd. |
| Device name | Polyisoprene Surgical Glove, Powder Free, Sterile, Tested for Use with Chemotherapy Drugs and Fentanyl Resistance |
| 510(k) Number | K222058 |
| Regulatory Class | I |
| Product Code | KGO, LZC, OPJ |

4.0 Description of The Device:

This is a disposable polyisoprene surgical glove that is tested for use with chemotherapy drugs and fentanyl. The device is composed of two layers which are not attached in the fingers or palm/back of hand region, but are attached in the cuff area. The outer layer of the glove is white and the inner layer is green. The glove is supplied in the following sizes: $5\frac{1}{2}$, 6, $6\frac{1}{2}$, 7, $7\frac{1}{2}$, 8, $8\frac{1}{2}$ and 9, and is provided sterile. No shelf life is claimed.

5.0 Indication for use:

A powder-free sterile surgeon's glove is a disposable device made of synthetic rubber intended to be worn on the hands of healthcare personnel as a barrier

for protection against cross-contamination between the healthcare personnel and patient.

These gloves were tested for use with Chemotherapy Drugs as per ASTM D6978 Standard Practice for Assessment of Medical Gloves to Permeation by Chemotherapy Drugs:

Chemotherapy Drug Permeation

The following chemicals have been tested with these gloves.

| Chemotherapy Drug | Concentration | Minimum Breakthrough Detection Time (Minutes) |
|----------------------------|---------------|--------------------------------------------------------|
| *Carmustine (BCNU) | 3.3 mg/ml | 67.6 |
| Cisplatin | 1.0 mg/ml | >240 |
| Cyclophosphamide (Cytoxan) | 20.0 mg/ml | >240 |
| Dacarbazine | 10.0 mg/ml | > 240 |
| Doxorubicin Hydrochloride | 2.0 mg/ml | > 240 |
| Etoposide | 20.0 mg/ml | > 240 |
| Fluorouracil | 50.0 mg/ml | > 240 |
| Ifosfamide | 50.0 mg/ml | > 240 |
| Methotrexate | 25.0 mg/ml | > 240 |
| Mitomycin C | 0.5 mg/ml | > 240 |
| Mitoxantrone | 2.0 mg/ml | > 240 |
| Paclitaxel | 6.0 mg/ml | > 240 |
| *Thiotepa | 10.0 mg/ml | 77.7 |
| Vincristine Sulfate | 1.0 mg/ml | > 240 |

*WARNING: Please note the following drugs have extremely low permeation times: Carmustine (BCNU): 67.6 minutes and Thiotepa: 77.7. Do not use with Carmustine and Thiotepa.

| Fentanyl | Concentration | Breakthrough Detection Time in Minutes |
|----------------------------|---------------|-------------------------------------------|
| Fentanyl Citrate Injection | 100mcg/2mL | No breakthrough up to 240 minutes |

6.0 Summary of the Technological Characteristics of the Device: See table

Table 1

| | | DEVICE PERFORMANCE | | COMPARISON |
|---------------------|------------------|--------------------------------|--------------------------------|------------|
| CHARACTERISTICS | CT4.115.4.5.5.C | | | ANALYSIS |
| | STANDARDS | PREDICATE | CURRENT | |
| 510(k) Number | - | K222058 | K230578 | - |
| Manufacturer(s) | - | WRP Asia Pacific Sdn. Bhd. | WRP Asia Pacific Sdn. Bhd. | Same |
| Material | ASTM D3577 | Polyisoprene Rubber | Polyisoprene Rubber | Same |
| Color | - | Natural White | Green and White | Different |
| Texture | - | Bisque Finish | Bisque Finish | Same |
| Physical Properties | ASTM D35// | Meets | Meets | Same |
| Before Aging | | M: 17MD: M: 6500/ | M: 17MP- M: 6500/ | |
| Tensile Strength: | | Min. 17MPa Min. 650% | Min. 17MPa Min. 650% | |
| Ultimate | | May 7 OMPa | Max 7 OMDa | |
| Elongation: Stress | | Max. 7.0MPa | Max. 7.0MPa | |
| at 500% | | | | |
| Elongation: | - | | | |
| After Aging Tensile | | Meets | Meets | Same |
| Strength: Ultimate | | Min. 12MPa Min. 490% | Min. 12MPa Min. 490% | |
| Elongation: Stress | | | | |
| at 500% | | N/A | N/A | |
| Elongation: | | | | |
| Thickness: | ASTM D3577 | Meets | Meets | Same |
| | 1 | M: 0.10 | M: 0.10 :: | |
| - Finger | 1 | Min. 0.10 mm | Min. 0.10 mm | |
| - Palm | | Min. 0.10 mm | Min. 0.10 mm | |
| - Cuff | | Min. 0.10 mm | Min. 0.10 mm | |
| Dimension, Length | ΔSTM D3577 | Meets | Meets | Same |
| Jimenoion, Length | , 13111 23377 | 11000 | 1 10005 | Surric |
| | | 5½: Min. 245mm 6.0: Min. | 5½: Min. 245mm 6.0: Min. 265 | |
| | | 265 mm 6½: Min. 265 mm | mm 6½: Min. 265 mm 7.0: Min. | |
| | | 7.0: Min. 265 mm 7½: Min. | 265 mm 7½: Min. 265 mm 8.0: | |
| | | 265 mm 8.0: Min. 265 mm | Min. 265 mm 8½: Min. 265 mm | |
| | | 8½: Min. 265 mm | 9.0: Min. 265 mm | |
| | | 9.0: Min. 265 mm | 5.6 265 | |
| Dimension, Width | ASTM D3577 | Meets | Meets | Same |
| | | | | |
| | | 5½: 70 ± 6 mm | 5½: 70 ± 6 mm | |
| | | 6.0: 76 ± 6 mm | 6.0: 76 ± 6 mm | |
| | | 6½: 83 ± 6 mm | 6½: 83 ± 6 mm | |
| | | 7.0: 89 ± 6 mm | 7.0: 89 ± 6 mm | |
| | | 7½: 95 ± 6 mm | 7½: 95 ± 6 mm | |
| | | 8.0: 102 ± 6 mm | 8.0: 102 ± 6 mm | |
| | | 8½: 108 ± 6 mm | 8½: 108 ± 6 mm | |
| | | 9.0: 114 ± 6 mm | 9.0: 114 ± 6 mm | |
| Powder Free | ASTM D6124 | Meets requirements of ≤2.0 | Meets requirements of ≤2.0 | Same |
| | | mg/glove for Powder-Free | mg/glove for Powder-Free | |
| | | designation per ASTM D3577 | designation per ASTM D3577 | |
| Biocompatibility | Primary Skin | Under the conditions of the | Under the conditions of the | Same |
| | Irritation - ISO | study, not an irritant | study, not an irritant | |
| | 10993-10 (E) | | | |
| | Dermal | Under the conditions of the | Under the conditions of the | Same |
| | Sensitization- | study, not a sensitizer | study, not a sensitizer | |
| | ISO 10993-10 | | | |
| | (E) | | | |
| | | Under the conditions of the | Under the conditions of the | Similar |
| | Toxicity, ISO | study, no evidence of acute | study, no evidence of acute | |
| | 10993-11 (E) | systemic toxicity observed | systemic toxicity observed | |
| | Material | Under the conditions of the | Under the conditions of the | Similar |
| | Mediated | study, no evidence of material | study, no evidence of material | |
| | Pyrogenicity, | mediated pyrogenicity | mediated pyrogenicity | |
| | ISO 10993-11 |] | '' ' ' | |
| | (E) | | | |
| | Bacterial | Not available | ≤ 20 EU/device | Different |
| | Endotoxins | | · | |
| | | | | |

| | ANSI/AAMI | | | |
|---------------------|------------|-------------------------------------------------|----------------------------------------------------------------|---------|
| | ST72 | | | |
| Watertight | ASTM D5151 | ASTM D3577 when tested in | | Same |
| (1000ml) | | | accordance with ASTM D5151 | a |
| Intended use / | - | • | ' | Similar |
| Indications for Use | | surgeon's glove is a | glove is a disposable device | |
| | | • | made of synthetic rubber | |
| | | | intended to be worn on the hands of healthcare personnel as | |
| | | healthcare personnel as a | a barrier for protection against | |
| | | | cross-contamination between the | |
| | | cross-contamination between | | |
| | | the healthcare personnel and | • | |
| | | patient. | These gloves were tested for | |
| | | These gloves were tested for | use with Chemotherapy Drugs | |
| | | use with Chemotherapy | as per ASTM D6978 Standard | |
| | | Drugs as per ASTM D6978 | Practice for Assessment of | |
| | | Standard Practice for | Medical Gloves to Permeation | |
| | | Assessment of | by Chemotherapy Drugs: | |
| | | Medical Gloves to Permeation | | |
| | | by Chemotherapy Drugs: | Chemotherapy Drug | |
| | | Chemotherapy Drug | (Concentration) | |
| | | Concentration Average | Minimum Breakthrough | |
| | | Breakthrough Detection Time | Detection Time (Minutes) | |
| | | (Minutes) *Carmustine (BCNU) (3.3 | *Carmustine (BCNU) (3.3 | |
| | | mg/ml) 24.0 | mg/ml) 67.6 | |
| | | (119/111) 24.0 Cisplatin (1.0 mg/ml) > 240 | Cisplatin (1.0 mg/ml) | |
| | | Cyclophosphamide (Cytoxan) | > 240 | |
| | | (20.0 mg/ml) > 240 | Cyclophosphamide (Cytoxan) | |
| | | Dacarbazine (10.0 mg/ml) > | (20.0 mg/ml) | |
| | | 240 | > 240 | |
| | | Doxorubicin Hydrochloride | Dacarbazine (10.0 mg/ml) | |
| | | (2.0 mg/ml) > 240 | > 240 | |
| | | Etoposide (20.0 mg/ml) > | Doxorubicin Hydrochloride (2.0 | |
| | | 240 | mg/ml) | |
| | | Fluorouracil (50.0 mg/ml) > | > 240 | |
| | | 240 | Etoposide (20.0 mg/ml) | |
| | | Ifosfamide (50.0 mg/ml) > 240 | > 240 Fluorouracil (50.0 mg/ml) | |
| | | Methotrexate (25.0 mg/ml) | > 240 | |
| | | > 240 | Ifosfamide (50.0 mg/ml) | |
| | | Mitomycin C (0.5 mg/ml) > | > 240 | |
| | | 240 | Methotrexate (25.0 mg/ml) | |
| | | Mitoxantrone (2.0 mg/ml) > | > 240 | |
| | | 240 | Mitomycin C (0.5 mg/ml) | |
| | | Paclitaxel (6.0 mg/ml) > 240 | > 240 | |
| | | *ThioTepa (10.0 mg/ml) 23.1 | , 5. , | |
| | | Vincristine Sulfate (1.0 | > 240 | |
| | | mg/ml) > 240 | Paclitaxel (6.0 mg/ml) | |
| | | *WARNING: Please note the | > 240 *Thiotopa (10.0 mg/ml) | |
| | | following drugs have extremely low permeation | *Thiotepa (10.0 mg/ml) 77.7 | |
| | | times: Carmustine (BCNU): | Vincristine Sulfate (1.0 mg/ml) | |
| | | 24.0 minutes and Thiotepa: | > 240 | |
| | | 23.1. Do not use with | - 270 | |
| | | Carmustine and Thiotepa | *WARNING: Please note the | |
| | | Fentanyl Resistance | following drugs have extremely | |
| | | Breakthrough Detection Time | low permeation times: | |
| | | in Minutes | Carmustine (BCNU): 67.6 | |
| | | Fentanyl Citrate Injection | minutes and Thiotepa: 77.7. | |
| | | (100mcg/2mL) No | Do not use with Carmustine | |
| | | breakthrough up to 240 | and Thiotepa. | |
| | | minutes | | |
| | | | Fentanyl | |
| | | | Breakthrough Detection Time in | |
| | | | Minutes | |

| | I | T | Contonul Citypto Taiaatiaa | I |
|-----------------------|---------------|---------------------------------|---------------------------------|----------|
| | | | Fentanyl Citrate Injection | |
| | | | No breakthrough up to 240 | |
| | 14 1: 101 | E4/ | minutes | |
| Size | Medical Glove | 5½ | | Same |
| | Guidance | 6.0 | 6.0 | |
| | Manual - | 61/2 | 61/2 | |
| | Labeling | 7.0 | 7.0 | |
| | | 71/2 | 7½ | |
| | | 8.0 | 8.0 | |
| | | 81/2 | 81/2 | |
| | | 9.0 | 9.0 | |
| Single Use | Medical Glove | Single use | Single use | Same |
| | Guidance | | | |
| | Manual - | | | |
| | Labeling | | | |
| Sterility Status | | Sterile (SAL 10 ⁻⁶) | Sterile (SAL 10 ⁻⁶) | Same |
| | Guidance | 0.12 20) |) (e/ 12 10) | - Cac |
| | Manual - | | | |
| | Labeling | | | |
| Sterility Method | ISO 11137-1 | Gamma Radiation | Gamma Radiation | Same |
| Sternity Method | | Gaillilla Radiation | Garrina Kadiadon | Same |
| | ISO 11137-2 | | | |
| Chemotherapy | ASTM D6978- | | | |
| Drug Permeation | 05 | | | |
| Test | | | | |
| * Carmustine (BCNU) | | 24.0 | 67.6 | Similar |
| (3.3 mg/ml) | | | | |
| Cisplatin (1.0 mg/ml) | | > 240 | >240 | Same |
| Cyclophosphamide | | > 240 | >240 | Same |
| (Cytoxan) (20.0 | | | | |
| mg/ml) | | | | |
| Dacarbazine (10.0 | | > 240 | > 240 | Same |
| mg/ml) | | 210 | 7 2 10 | Suric |
| Doxorubicin | | > 240 | > 240 | Same |
| Hydrochloride (2.0 | | 240 | 240 | Same |
| | | | | |
| mg/ml) | | 240 | 240 | C |
| Etoposide (20.0 | | > 240 | > 240 | Same |
| mg/ml) | | | | _ |
| Fluorouracil (50.0 | | > 240 | > 240 | Same |
| mg/ml) | | | | |
| Ifosfamide (50.0 | | > 240 | > 240 | Same |
| mg/ml) | | | | |
| Methotrexate (25.0 | | > 240 | > 240 | Same |
| mg/ml) | | | | |
| Mitomycin C (0.5 | | > 240 | > 240 | Same |
| mg/ml) | | | | - |
| Mitoxantrone (2.0 | 1 | > 240 | > 240 | Same |
| mg/ml) | | 0 | | |
| Paclitaxel (6.0 | 1 | > 240 | > 240 | Same |
| mg/ml) | | 210 | 210 | Julic |
| * ThioTepa (10.0 | 1 | 22.1 | 77.7 | Similar |
| mg/ml) | | 23.1 | //./ | Siilliai |
| | 1 | > 240 | > 240 | Cama |
| Vincristine Sulfate | | > 240 | > 240 | Same |
| (1.0 mg/ml) | 4 | | | a |
| Warning Statement | | WARNING: Please note the | | Similar |
| | | following drugs have | Please note the following drugs | |
| | | extremely low permeation | have extremely low permeation | |
| | | times: Carmustine (BCNU): | times: Carmustine (BCNU): 67.6 | |
| | | 24.0 | minutes and | |
| | | minutes and | Thiotepa: 77.7. Do not use with | |
| | | Thiotepa: 23.1. Do not use | | |
| | | with Carmustine and Thiotepa | · | |
| Fentanyl Resistant | ASTM D6978- | > 240 | > 240 | Same |
| | 05 | | | |
| | | | | |

7.0 Summary of Non-Clinical Testing

The performance test data of the non-clinical test for this subject glove is summarized as per below.

| Test Method | Standard | Purpose of Testing | Acceptance Crite | ria | Results |
|-------------|-------------------------------------------|-----------------------|------------------------------|-------------|---------|
| Physical | ASTM D412 | To evaluate th | eBefore Aging Outer | Layer | |
| Properties | (Standard Test Method for | tensile (tension) | Tensile strength | Min. 17MPa | Pass |
| | Vulcanized Rubber and | properties of glove | Ultimate elongation | Min. 650% | Pass |
| | Thermoplastic Elastomers - Tension) | | Stress at 500% Elongation | Max. 7.0MPa | Pass |
| | | | After Aging Oute | r Layer | |
| | | | Tensile strength | Min. 12MPa | Pass |
| | | | Ultimate elongation | Min. 490% | Pass |
| | | | Before Aging Inn | er Laver | |
| | | | Tensile strength | Min. 17MPa | Pass |
| | | | Ultimate elongation | Min. 650% | Pass |
| | | | Stress at 500% Elongation | Max. 7.0MPa | Pass |
| | | | After Aging Inner | Laver | |
| | | | Tensile strength | Min. 12MPa | Pass |
| | | | Ultimate elongation | Min. 490% | Pass |
| | | | Before Aging Cuf | f Region | |
| | | | Tensile strength | Min. 17MPa | Pass |
| | | | Ultimate elongation | Min. 650% | Pass |
| | | | Stress at 500% Elongation | Max. 7.0MPa | Pass |
| | | | After Aging Cuff | l Pegion | |
| | | | Tensile strength | Min. 12MPa | Pass |
| l | | | Ultimate elongation | Min. 490% | Pass |

| Dimension | ASTM D3767 | To measure the | Length: Each size satisfies ASTM | Pass |
|----------------|-----------------|-----------------|------------------------------------|------|
| | (Standard | length, width | requirement | |
| | Practice for | and thickness | TANK TO A COTA | _ |
| | Rubber - | of glove | | Pass |
| | Measurement of | | requirement | |
| | Dimensions) | | | |
| Dimension | ASTM D3767 | To measure the | Thickness: Each size satisfies | Pass |
| | (Standard | length, width | ASTM requirement | |
| | Practice for | and thickness | | |
| | Rubber - | of glove | | |
| | Measurement of | | | |
| | Dimensions) | | | |
| Watertight | ASTM D5151 | To measure | Freedom from holes AQL 1.5 | Pass |
| | (Standard Test | glove integrity | | |
| | Nethod for | , | | |
| | Detection of | | | |
| | Holes | | | |
| | in Medical | | | |
| | Gloves) | | | |
| Residual | | To determine | Have a powder residue below 2.0 | Pass |
| Powder | | the amount of | mg per glove | |
| | | residual powder | | |
| | Residual Powder | | | |
| | | powder solids | | |
| | | found on gloves | | |
| Biocompatibili | | To assess the | Under the conditions of the study, | Pass |
| ty | | potential of | not an irritant | |
| , | 10993-10 (E) | glove to | | |
| | | produce dermal | | |
| | | irritation | | |
| Biocompatibili | Dermal | To assess the | Under the conditions of the study, | Pass |
| ty | Sensitization- | potential of | not a sensitizer | |
| • | ISO 10993-10 | glove to cause | | |
| | (E) | dermal | | |
| | | sensitization | | |
| Biocompatibili | Acute Systemic | To determine | Under the conditions of the study, | Pass |
| ty | Toxicity, ISO | the acute | no acute systemic toxicity | |
| | 10993-11 (E) | systemic | | |
| | | toxicity | | |
| | | potential of | | |
| | | glove | | |
| Biocompatibili | Material | To determine | Under the conditions of the study, | Pass |
| ty | Mediated | any | non-pyrogenic | |
| | Pyrogenicity, | pyrogenic | | |
| | ISO 10993-11 | response | | |
| | (E) | induced by the | | |
| | | glove material | | |
| | LAL Gel Clot | To determine | ≤20 EU/device | Pass |
| | Bacterial | the endotoxin | | |
| | Endotoxin | level on final | | |
| | ANSI/AAMI | finished gloves | | |
| 1 | ST72 | | | |

8.0 Summary of Clinical Testing:

No clinical study is included in this submission.

9.0 Conclusion

The conclusion drawn from the non-clinical tests demonstrate that the subject device, Polyisoprene Surgical Glove (Unified Double Layer), Sterile, Tested for Use with Chemotherapy Drugs and Fentanyl, is as safe, effective, and performs as well as or better than the legally marketed predicate device K222058.