

KIMTECH PURE* G3 Sterile STERLING* Nitrile Gloves

Engineered for Protection. Designed for Comfort.







Engineered for Protection, Designed for Comfort

KIMTECH PURE* G3 Sterile STERLING* Nitrile Gloves

KIMTECH PURE* G3 Sterile STERLING* Nitrile Gloves offer Improved Performance and Comfort and are Better for the Environment.

- Recommended for ISO Class 3 or higher cleanroom environments
- Contain no natural rubber latex reducing the potential for TYPE I glove-associated reactions
- Static dissipative in use
- Safe handling of objects due to improved and consistent grip
- · Hand specific
- Walleted & pouched in polyethylene for cleanroom use
- · Packaged for aseptic donning
- Certificate of Analysis (by Lot) and Certificate of Irradiation available online
- Trend Data available online to demonstrate product quality over time

Improved Performance

Our innovative STERLING* manufacturing technology enables us to deliver a comfortable nitrile glove with all the protection and cleanliness our customers have come to expect. The result is a sterile nitrile glove combining the sensitivity of latex with the protection of nitrile.

Improved Comfort

When double-donned, the KIMTECH PURE* G3 Sterile STERLING* Nitrile Gloves deliver the equivalent thickness of a single latex glove without the risk of Type I latex allergic reactions. This improves feel & dexterity without any loss in barrier protection or performance.

Better For The Environment

The KIMTECH PURE* G3 Sterile STERLING* Nitrile Glove is also an environmentally responsible glove that requires fewer raw materials to produce. We have improved packaging to deliver 50% more gloves per case than traditional gloves. Average use of 25 cases per month results in a reduction of 1,000 kg of waste per year vs. traditional latex gloves.



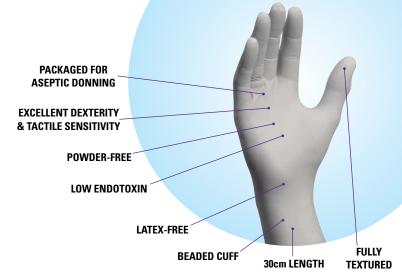




€ 0123







KIMTECH PURE* G3 Sterile STERLING* Nitrile Gloves

Product Specifications

- Synthetic nitrile polymer (Acrylonitrile Butadiene)
- Contains no natural rubber latex.

Quality Standards

- This is a PPE Category III product classified by EC Council Directive 89/686/EEC. It is tested in accordance with the EN Norms EN420:2003
- Cleanroom packaged to meet the standard of ISO Class 3 Cleanroom
- Meets or exceeds AQL level of 1.5 for pinholes
- Manufactured in accordance with Quality System ISO 9001
- Dexterity Classification (EN 420:2003) = 5

Characteristics		Value				Test Method			
Freedom from holes		1.5AQL¹				EN374-1 and ASTM D 5151			
¹ AQL as defined per ISO 2859-1 for sampling by attributes									
Tensile Properties		Tensile St	rength			Ultima	te Elonga	tion	
- Before Aging - After Accelerated Aging		42 MPa 650% 38 MPa 550%				ASTM D 412 and ASTM D 573			
Dimensional		Measured	l Point	r	nm				
- Thickness		Middle Finger Palm Cuff		0.10 0.08 0.07			ASTM D 3767 and D 6319		
Palm Widths									
- Width (mm)	6 80	6.5 87	7 94	7.5 98	8 109	8.5 114	9 120	10 128	ASTM D 3767 / D 6319 and EN420
Particles (maximum)									
- Per cm ² > 0.5 micron									IEST-RP-CC005
Endotoxin (maximum)									
- Endotoxin Units/pair		20				LAL Kinetic Turbidimetric Method			

KIMTECH PURE* G3 Sterile STERLING* Nitrile Gloves

Size a	nd Code	30cm
		10x
6	11821	00
6.5	11822	30x
7	11823	Mb dM
7.5	11824	121121
8	11825	
8.5	11826	
9	11827	= 300
10	11828	

Reduce Today, Respect Tomorrow is the KIMBERLY-CLARK PROFESSIONAL*approach to sustainability. It begins with the understanding that the way we use resources today shapes the world of tomorrow. And it has led us to focus on reducing consumption at every stage of the product lifecycle - from design and manufacture to distribution and disposal. Reduction is the key to lowering the environmental impact of our activities as well as those of customers. It has also been crucial in achieving our number one position five years in a row on the Dow Jones Sustainability Index. To learn more about Reduce Today, Respect Tomorrow and how we can reduce consumption in your business, visit **www.kcpreducetoday.com**



INFORMATION SERVICE

For technical enquiries please email infofax@kcc.com For sales enquiries please email kimtech.support@kcc.com









KIMTECH PURE* G3 Sterile STERLING* Nitrile Gloves Donning Procedure

The Science of Protection.

Before starting the donning procedure, wash hands thoroughly and dry.

Step 1

Peel open sterile pouch and unfold glove wallet (DO NOT touch the exterior surface of gloves). Pinch the sides of wallet to open.



Step 2

Apply first glove to hand by sliding palm up into glove (thumb facing outward). Bend thumb toward center of palm and slide into glove while pulling up on the cuff. Leave the cuff rolled up.







Step 3

Apply second glove to hand by sliding the four gloved fingers into cuff of the second glove. Slide ungloved palm (thumb facing outward) into glove. Bend thumb toward center of palm and slide into glove while pulling up with fingers of gloved hand.







Step 4

Complete donning the gloves by pulling up the cuff of the first glove with the fingers of the second hand[†].



Step 5

If double donning is desired, repeat steps 1-4 with a second set of gloves - this time using a half inch size larger glove if necessary.



www.contaminomics.com





CERTIFICATE OF ANALYSIS

Product Description: KIMTECH PURE*G3 Sterile Nitrile Gloves, 12" Hand-Specific Pair

(Formerly SAFESKIN* Sterile Critical Nitrile Gloves)

Catalog Numbers: 11821, 11822, 11823, 11824, 11825, 11826, 11827, 11828

Lot #: 971190 Total Cases per Lot: 573 Batches: SM93052VX to SM93342VX Date of Manufacture: Nov-09

Physical Test Data						
	,			Defects	Elongation (%) Tensile (MPa)	
	Watertight	Dimensions	Minor	Major	Pre Aging	Pre Aging
Sample Size :	1410	672	1410	1410	384	384
AQL Level :	1.5	2.5	4.0	2.5	2.5	2.5
Failures Allowed per AQL :	35	21	88	53	12	12
Failures :	3	0	0	0	0	0
Inspection Results :	Accept	Accept	Accept	Accept	Accept	Accept
<u>-</u>				Averages	589	35.7

Test Methods: Watertight ASTM D 5151, Elongation and Tensile ASTM D 412

Particle Test Data

Particle Size (µm)	Min	Max	Standard Deviation	Average Particles/cm²
0.5 - 1.0	396	1067	142	597
1.0 - 2.0	35	119	23	70
2.0 - 5.0	11	47	10	26
5.0 - 10.0	1	8	2	3
10.0 - 20.0	0	2	1	1
>20	0	0	0	0
Total per Sample	466	1194	156	697

Test Method: IEST-RP-CC005

	Extractable Ion Test Data						
	Anions Results						
	Fluoride	Chloride	Nitrite	Bromide	Nitrate	Phosphate	Sulfate
	F.	CI ⁻	NO ₂	Br ⁻	N0 ₃ -	P0 ₄ -3	S0₄ ⁻²
μg/g glove	<0.5	16.2	<2.5	<2.5	11.4	<5	2.1
μg/cm ²	< 0.003	0.074	<0.016	<0.016	0.052	<0.031	0.013
		(Cations Result	s		Trace Element	Results
	Sodium	Ammonium	Potassium	Magnesium	Calcium	Zinc	
	Na⁺	NH₄ ⁺	K⁺	Mg ⁺²	Ca ⁺²	Zn	
μg/g glove	1.1	0.9	1.6	<0.25	9.9	4.1	
μg/cm²	0.005	0.004	0.007	<0.002	0.045	0.019	

Test Method: IEST-RP-CC005

Endotoxin Data

Endotoxin Units/device (pair) Test Result: 0.429 Specification: < 20 Endotoxin Units/device (pair)

Test Method: Limulus Amebocyte Lysate (LAL) Test: Kinetic Turbidimetric Technique

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Review By : (QA Executive - SSMT)

CERTIFICATE OF IRRADIATION Number: MA

SAF005

SAFESKIN MEDICAL & SCIENTIFIC (THAILAND) LTD

200 Moo 8, KANJANAVANICH ROAD

TAMBOL PRIK

AMPHUR SADAO, SONGKHLA

THAILAND 90120



ISOTRON MALAYSIA Sdn Bhd

Company No 512058-V

Kuala Ketil Industrial Estate

09300 Kuala Ketil, Kedah

Tel: 60 (0) 4 415 1111 Fax: 60 (0) 4 415 1110 http://www.isotron.com

Cust. Ref: 4027001171
Date Rec'd: 02/12/09
Date 4027001171
02/12/09

ITEM CODE ISOTRON BATCH	ITEM SPECIFICATION	QTY	ADDITIONAL DETAILS		
M1SAF0050021 M209120023	KIMTECH Pure* G3, Sterile Sterling * Nitrile Gloves, 12" Hand Specific Pairs	546	CAT NO MFG.LOT/BATCH NO QTY 11821-07 971190/SM93312VX 25 11821-07 971190/SM93332VX 11 11822-07 971190/SM93322VX 16 11822-07 971190/SM93322VX 15 11822-07 971190/SM93322VX 19 11823-07 971190/SM93282VX 33 11823-07 971190/SM93282VX 33 11823-07 971190/SM93282VX 24 11823-07 971190/SM93282VX 12 11823-07 971190/SM93292VX 12 11823-07 971190/SM93292VX 11 11823-07 971190/SM93292VX 21 11824-07 971190/SM93322VX 21 11824-07 971190/SM93312VX 20 11824-07 971190/SM93312VX 15 11824-07 971190/SM93312VX 29 11825-07 971190/SM93312VX 29 11825-07 971190/SM93312VX 29 11825-07 971190/SM93312VX 37		
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			IRRADIATION DATE: 03/12/2009		
			DOSE REQUIRED: 25.0-50.0 kGy ACTUAL DOSE RECEIVED: MIN:26.3 kGy MAX:36.1 kGy		
4 .	Total	546	Last page 1 of 1		

This is to certify that the above items have been irradiated as specified above

JAYANTHIMALA. A

Authorised Signature: QA Manager

Isotron (Malaysia) Sdn. Bhd. For and on behalf of ISOTRON MALAYSIA Sdn Bhd

7705877761 12:15:57 p.m. 10-23-2009

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Declaration of Conformity

Product: KIMTECH PURE* G3 Sterile STERLING* Nitrile gloves

Product codes: KC Code Size

6.0 1182107 6.5 1182207 1182307 7.0 7.5 1182407 8.0 1182507 8.5 1182607 9.0 1182707 10.0 1182807

Classification: PPE Category III

EEC Representative: Kimberly-Clark Professional Europe, Protective Clothing Business Group, 40

London Road, Reigate, Surrey, United Kingdom, RH2 9QP

Applicable Norms: Protective gloves against chemicals and micro-organisms (EN 374-1)

Protective gloves against mechanical risks (EN 388)

General requirements for gloves (EN420)

Kimberly-Clark Professional Europe, Reigate, Surrey, United Kingdom, RH2 9QP declares that Personal Protective Equipment: Protective gloves against chemicals and micro-organisms, model KIMTECH PURE* G3 Sterile STERLING* Nitrile gloves (product codes aforementioned) is in conformity with the provisions of EC Council Directive 89/686/EEC and with the harmonised standard EN 420, EN 388 and EN 374-1/3. The device is identical to the Personal Protective Equipment, which is the subject of EC certificate of conformity Number GB09/78686 issued by SGS United Kingdom (Notified Body 0120). This device is subject to the procedure set out in Article 11 point B of Directive 89/686/EEC under the supervision of the Notified Body TUV Product Service, Munich (Notified Body 0123).

Kimberly-Clark Corporation

Larry Kludt

Global Regulatory Affairs Manager

Kimberly-Clark Europe

REF





GANTS EN NITRILE STERLING* G3 STÉRILES G3 STERILE STERLING* NITRILE GLOVES



- Tested for Watertightness and Low Chemical Protection
 Testés pour étanchéité à l'eau et faible protection chimique
 Cepruit auf Wasserfestigkeit und geringen Schutz gegen
- Sometidos a pruebas de impermeabilidad y protección
- contra sustancias químicas leves
- ◎ 水密性および低度対化学薬品性を検査済 ® Comprovadas contra a estanqueidade à água e protecção contra produtos químicos fracos
- Tested for Microorganism Hazards
 Testés pour les risques causés par les microorganismes
 Eapprift für Gathanen durch Mikroorganismen
 Sometidos a pruebas contra riesgos presentados por

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Представительство в России ООО Кимберли-Кларк. 115054 Россия, Москва, Космодамијанская набережная, 52/1. Тел. 007-495-725-4383

www.kcprofessional.com/ru

Patent Pending. / Manufactured Under License of US Patent No.: RE 35,616

- Comprovadas contra perigos apresentados por microrganismos厳生物危険性のテスト済み
- - 製 Attention: See Insert
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 Attention: Voir encart
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- Protect from Heat and Radioactive Sources
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- •<u>)</u>

STERILE R 放射線滅菌

AQL 1.5 G1

0123 **EN420**

NOTE: Must comply with Kimberly-Clark Master Manufacturing Specification

Matthews

BRAND SOLUTIONS

FOR ALL PLATE REQUESTS PLEASE E-MAIL kcpnateam@matthewsbrandsolutions.co.uk FOR ALL ART REQUESTS PLEASE E-MAIL pittsburghart@matw.com

Mill: OEM Thailand	Dimensions: 6 × 12
Flute:	Dieline: <u>></u>

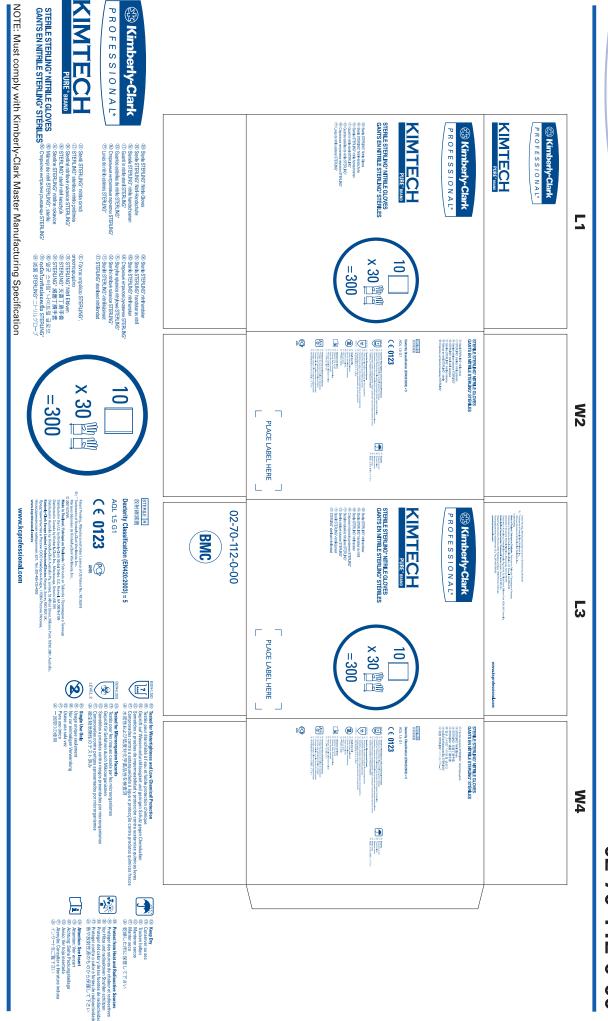
SUBSTRATE : PET/PE Film COLORS: PMS 267

TB003-1

Overall Lacquer Coverage

August 26, 2009 • 096880MBS MG

V1 07/21 SY



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Dimensions: 13.33 × 10.18 × 14.197

Mill: OEM Thailand

September 21, 2009 • 098396MBS SY

Flute: B/C Dieline:

COLORS: PMS-288 Blue SUBSTRATE : Natural Kraft

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SAFESKIN MEDICAL & SCIENTIFIC (TH) LTD

DOSE SETTING VD Max STUDY TO ISO 11137-PART 2:2006

"STERILIZATION OF HEALTHCARE PRODUCTS RADIATION ESTABLISHING THE STERILIZATION PART 2:2006"

KIMTECH PURE * G3/G5 STERILE STERLING NITRILE GLOVES

REPORT NO. 0907371 JUNE - JULY 2009

Report Prepared By: September 161/67 Microbiologist

Report Reviewed By: QA Manager

SUMMARY

This study was undertaken in accordance with Method VD max ²⁵ of "Sterilization of healthcare products – Radiation Part 2 – Establishing the sterilization dose 11137-2:2006. The study was to substantiate a Sterilization dose of 25kGy.

3 batches of Kimtech Pure * G3/G5 Sterling Sterile Nitrile Gloves were assayed for bioburden levels. The overall average for the batch tested was 13.43 /unit sample .No single batch was shown to be more than twice this overall average and therefore this overall average was used to calculate the sub process verification dose .

With reference to Table 9 of the ISO 11137 - 2:2006 document, the nearest value listed equal to or greater than the bioburden level is 14 CFU. Therefore the sub- process dose required for the sterility assurance level of 10^{-1} is 7.5kGy +/- 10% (6.8 kGy - 8.2 kGy).

Therefore 10 units were irradiated at this dose and subsequently individually tested for sterility. After the full incubation period all tests gave a negative result, therefore statistical verification for the sub process dose is accepted.

In conclusion, a dose of 25kGy will provide a sterility assurance level of 10⁻⁶.

Complete Dose Setting Study available on demand

Test Method for Analyzing Liquid Particle Counts

This test method is used to analyze the mobile particle contaminants from cleanroom gloves.

1. Scope

- 1.1. The test method covers the average particulate contamination found on gloves designated for cleanroom applicability.
- 1.2. The average contaminant concentration will be reported in particles per cm² in two ways:
 - 1.2.1. By size grouping, 0.5 to 1.0 microns, 1.0 to 2.0 microns, 2.0 to 5.0 microns, 5.0 to 10.0 microns, 10.0 to 20.0 microns, greater than 20.0 microns, and a total particle count greater than 0.5 microns.
 - 1.2.2. Statistical analysis of each grouping consisting of Minimum Value, Maximum Value, Standard Deviation, and Average Value, for each group of individual gloves.
- 1.3. The safe and proper use of gloves is beyond the scope of this test method.
- 1.4. This test method does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this Test Method to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

2. Referenced Documents

- 2.1. IEST-RP-CC005.3 Recommended Practice for Gloves and Finger Cots Used in Cleanrooms and Other Controlled Environments
- 2.2. Work Instruction

3. Apparatus

- 3.1. Analytical Balance, capable of readability and repeatability to 0.1 mg
- 3.2. Particle Measuring Systems CLS-900 Liquid Particle Counting System
- 3.3. 2000 mL glass beaker or 1000mL glass conical flask
- 3.4. Stainless Steel Forceps, 10" length
- 3.5. 250 ml Volumetric Flask
- 3.6. 500 ml Volumetric Flask
- 3.7. High Purity Deionized Water System, capable of producing 18.2 MOhm quality water
- 3.8. Point of Use Filter, 0.2 micron size
- 3.9. Orbital Shaker, 3/4" orbit, capable of 200 rpm
- 3.10. Circular Die, 1.5 inch diameter, calibrated

4. Procedure

4.1. Test Preparation

- 4.1.1. Prior to extraction, all Erlenmeyer flasks will be cleaned no less than five times with high purity deionized water filtered to 0.2 microns at point of use.
- 4.1.2. All related equipment (forceps, volumetric flasks, etc.) must be rinsed with high purity deionized water prior to use.

4.2. Extraction

- 4.2.1. Randomly pull a glove from the package.
- 4.2.2. Place glove finger-first into the one liter Erlenmeyer flask and hold open by cuff using the rinsed forceps.
- 4.2.3. Empty into the inside of the glove 500 ml high purity filtered deionized water.
- 4.2.4. Allow the glove to settle into the Erlenmeyer flask.
- 4.2.5. Place an additional 250 ml high purity filtered deionized water over the glove within the Erlenmeyer flask.
- 4.2.6. Allow the Erlenmeyer flask with glove to agitate on the shaker for 10 minutes ± 10 seconds at a rate of 150 rpm ± 10 rpm.
- 4.2.7. Using clean tongs, immediately remove the glove from the container. Drain any trapped liquid into the beaker by manipulating the fingers on the glove, with the tongs
- 4.2.8. Dispose of the glove.
- 4.2.9. Repeat the extraction two additional times to complete the set.
- 4.2.10. Prepare a process blank, using all the steps in section 4.2, without placing the glove in the Erlenmeyer flask.

4.3. Measurement

- 4.3.1. Follow the Work Instruction for the Liquid Particle Counter for analyzing the solutions.
- 4.4. Glove Surface Area
 - 4.4.1. Pull three gloves from the production package and weigh to the nearest 0.1 mg.
 - 4.4.2. Record as A.
 - 4.4.3. Cut the 3 gloves with square die (5X5 cm.) by wheel cutter at palm. This will give you six cutout sections.
 - 4.4.4. Weight the six cut-out sections. Record this as B.
 - 4.4.5. Calculate the surface area of the glove using the following equation :

5. Calculations

5.1. Calculate counts/cm² by channel size using the following equation:

(Sample (counts/mL)-Blank (Counts/mL) x Extraction volume (mL) x DF Surface area (in cm²)

5.2. Total Counts/cm² : = $\sum AllChannelSizes$

6. Reporting

- 6.1. The final report should include the Lot Number, Batch number, Product Description, Part Number, and any other pertinent information about the sample, as well as the final calculated counts/cm² by channel size and a total counts/cm² greater than 0.5 microns.
- 6.2. Statistics will be calculated and reported on sample sizes greater than three.

Test Method for Analyzing Extractables

This test method is used to analyze the soluble ionic extractable contaminants from cleanroom gloves.

1. Scope

- 1.1. The test method covers the average ionic contamination found on gloves designated for cleanroom applicability.
- 1.2. The average contaminant concentration will be reported in one of two ways:
 - 1.2.1. Micrograms of ionic contaminant per gram of glove weight (ug/g), also described as ppm.
 - 1.2.2. Micrograms of ionic contaminant per square centimeter of glove area (ug/cm²)
- 1.3. This test method does not cover contaminants that are insoluble in water, or organic macromolecules.
- 1.4. The safe and proper use of gloves is beyond the scope of this test method.
- 1.5. This test method does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this Test Method to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

2. Referenced Documents

- 1. IEST-RP-CC005.2 Recommended Practice for Gloves and Finger Cots Used in Cleanrooms and Other Controlled Environments.
- 2.2. Work Instruction WI 10-05-26, Work Instruction for Performing Ion Chromatography Analysis of Gloves

3. Apparatus

- 3.1. Analytical Balance, capable of readability and repeatability to 0.1 mg
- 3.2. Ion Chromatograph
- 3.3. Extraction Containers, 1 liter capacity, HDPE with screw type lids
- 3.4. Stainless Steel Forceps, 10" length
- 3.5. 500 ml Volumetric Flask
- 3.6. High Purity Deionized Water System, capable of producing 18.0 MOhm quality water
- 3.7. Point of Use Filter, 0.1 micron size
- 3.8. Circular Die, 1.5 inch diameter, calibrated

4. Procedure

- 4.1. Test Preparation
 - 4.1.1. Prior to extraction, all extraction containers will be cleaned using high purity deionized water high purity deionized water filtered to 0.2 microns at point of use.
 - 4.1.2. All related equipment (forceps, volumetric flasks, etc.) must be rinsed with high purity de-ionized water prior to use.

4.2. Extraction

- 4.2.1. Randomly pull a glove from the package.
- 4.2.2. Place glove finger-first into the one liter Erlenmeyer flask and hold open by cuff using the rinsed forceps.
- 4.3. Empty into the inside of the glove approximately 250 ml high purity filtered deionized water.
- 4.4. Allow the glove to settle into the extraction container.
- 4.5. Pour remaining 250 ml high purity filtered deionized water over the glove within the extraction container.
- 4.6. Place the lid upon the container and seal tightly.
- 4.7. Gently swirl the container to ensure that all surfaces of the glove are wetted.
- 4.8. Allow the glove to extract in the deionized water for at least 10 minutes, but no longer than 11 minutes.
- 4.9. Remove the glove by the fingers, allowing most of the water trapped in the fingers to drain back in to the extraction container.
- 4.10. Dispose of the glove.
- 4.11. Repeat extraction two additional times to complete the set.
- 4.12. Prepare a sample blank, using all the steps in section 2, without placing the glove in the extraction container.

4.13. Measurement

- 4.13.1. Follow the guidelines for the Ion Chromatograph for analyzing aqueous solutions.
- 4.14. Glove weight and surface area
 - 4.14.1. Pull three gloves from the production package and weigh to the nearest 0.1 mg.
 - 4.14.2. Record as A.
 - 4.14.3. Cut the 3 gloves with square die (5X5 cm.) by wheel cutter at palm. This will give you six cut-out sections.
 - 4.14.4. Weight the six cut-out sections. Record this as B.
 - 4.14.5. Calculate the surface area of the glove using the following equation :

Surface area =
$$\frac{A \times 5 \times 5 \times 4}{B}$$

5. Calculations

5.1. Once the data output from the Chromatograph has been reviewed for errors, calculate the following:

5.1.1. ug/g (ppm) contamination:
$$= \frac{(AnalyteConc.)*(500ml)}{GloveWeight}$$

5.1.2. ug/cm² contamination: =
$$\frac{(AnalyteConc.)*(500ml)}{SurfaceArea}$$

6. Reporting

6.1. The final report should include the Lot number, Batch number, Product description, Part number, and any other pertinent information about the sample, as well as the final calculated contaminant concentration in ug/g and ug/cm².