

Soft Nitrile Examination Gloves	Document number: SM ENM PGA TR E3FS	
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Allergy Test report No: PPSF/PGA/PSI/004/02 – Date of Test: 10.01.2002 to 19.02.2002

USM Penang:	Lot. No:	Purpose:	Reference:	Result:
Week 1	P2012115	Sensitisation Study in the Guinea pig	EN 30993-10	ER/0 – OE/0
Week 2	P2012115	Sensitisation Study in the Guinea pig	EN 30993-10	ER/0 – OE/0
Week 3	P2012115	Sensitisation Study in the Guinea pig	EN 30993-10	ER/0 – OE/0

Allergy Test report No: PPSF/PGA/DSS/004/02 – Date of Test: 20.02.2003

USM Penang:	Lot. No:	Purpose:	Reference:	Result:
24 Hours	P2012115	Skin Irritation study in the Rabbit	EN 30993-10	ER/0 – OE/0
48 Hours	P2012115	Skin Irritation study in the Rabbit	EN 30993-10	ER/0 – OE/0
72 Hours	P2012115	Skin Irritation study in the Rabbit	EN 30993-10	ER/0 – OE/0

Sensitivity & Irritant Score of (ER) Erythematic:	Sensitivity & Irritant Score of (OE) Oedema:
None.....0	None.....0
Very Slight.....1	Very Slight.....1
Well Defined.....2	Well Defined.....2
Moderate.....3	Moderate.....3
Severe.....4	Severe.....4

Bioburden Test report No: 5801/103031 – Date of Test: 23.01.2003

SGS Malaysia:	Lot. No:	Method:	Reference:	Result:
Sample 1	0098/03	USP XXII ASTM D6124-00	EN 1174	60 cfu/g

Chemical Residual Test report No: LGM/BTK/UPB/5.10/0207/CP/2415 – Date of Test: 13.08.2002

RRIM Malaysia:	Chemicals:	Reference:	Method:	Result:
Test 1	Butylhydroxyanisole (BHA) (µg/g)	ASTM D-6124	HPLC ¹	Non Detected
Test 2	Butylhydroxytoluene (BHT) (µg/g)	ASTM D-6124	HPLC	Non Detected
Test 3	Mercaptobenzothiazole (MBT) (µg/g)	ASTM D-6124	HPLC	Non Detected
Test 4	Tetramethylthiuram disulphide (TMTD) (µg/g)	ASTM D-6124	HPLC	Non Detected
Test 5	Wingstay L (µg/g)	ASTM D-6124	HPLC	Non Detected
Test 6	Zinc Dibutyldithiocarbamate (ZDBC) (µg/g)	ASTM D-6124	HPLC	Non Detected
Test 7	Zinc Diethyldithiocarbamate (ZDEC) (µg/g)	ASTM D-6124	HPLC	Non Detected
Test 8	Zinc Dimethyldithiocarbamate (ZDMC) (µg/g)	ASTM D-6124	HPLC	Non Detected
Test 9	Zinc Mercaptobenzimidazololate (ZMBI) (µg/g)	ASTM D-6124	HPLC	Non Detected
Test 10	Zinc Mercaptobenzothiazole (ZMBT) (µg/g)	ASTM D-6124	HPLC	Non Detected
Test 11	Zinc Pentaylmethyldithiocarbamate (ZPMC) (µg/g)	ASTM D-6124	HPLC	Non Detected

Cytotoxicity Effect report: 03T 06675 00 – Date of Test: 10.06.2003

NAMSA USA:	Chemical:	Reference:	Method:	Result:
Test 1	Mouse Fibroblast Cells, 24 hr Exposure	EN 30993-5	End-Point Titration	1:4 Dilution of Extract Non-Toxic

Food Safe Test report No: 19295 U 03 – Date of Test: 10.11.2003

ISEGA Germany:	Test Chemicals:	Reference:	Overall Migration:
Migration Test			Overall Migration
Detected	Acetic Acid 3%	EN 1188 & 13130	3,3 mg/dm ²
Detected	Ethanol 10%	EN 1188 & 13130	1,7 mg/dm ²
Detected	Ethanol 95%	EN 1188 & 13130	3,2 mg/dm ²
Primary Aromatic Amines			Specific Migration
Not detected	Acetic Acids 3%	EN 1188 & 13130	< 0,0004 mg/dm ²
Secondary Aliphatic Amines			
Not detected	Diethylamine	EN 1188 & 13130	< 0,0001 mg/dm ²
Not detected	Dibutylamine	EN 1188 & 13130	< 0,0001 mg/dm ²
Heavy Metal Contents			
Detected	Zinc (ZN)	EN 1188 & 13130	11 g/kg
Not Detected	Lead (PB)	EN 1188 & 13130	< 0,5 mg/kg
Extractable Protein			
Not Detected		EN 1188 & 13130	0
Colour Fastness			
No Immigration	Acetic Acids 3% - Ethanol 10% - Olive Oil	EN 1188 & 13130	0

Cytostatica Permeation Test report No: 58809 – Date of Test: 20.09.2004

ARDL USA:	Lot. No:	Test Chemicals:	Reference:	Result:
Test 1	SN23064316	5-Fluorouracil 50.000 ppm	EN 374-3	No breakthrough - 240 minutes
Test 2	SN23064316	Carmustine 3.300 ppm	EN 374	Breakthrough after 80 ² minutes
Test 3	SN23064316	Cisplatin 1.000 ppm	EN 374	No breakthrough - 240 minutes
Test 4	SN23064316	Cyclophosphamide 20.000 ppm	EN 374	No breakthrough - 240 minutes
Test 5	SN23064316	Dacarbazine 10.000 ppm	EN 374	No breakthrough - 240 minutes
Test 6	SN23064316	Doxorubicin Hydrochloride 2.000 ppm	EN 374	No breakthrough - 240 minutes
Test 7	SN23064316	Etoposide 20.000 ppm	EN 374	No breakthrough - 240 minutes
Test 8	SN23064316	Paclitaxel (Taxol) 6.000 ppm	EN 374	No breakthrough - 240 minutes
Test 9	SN23064316	Thio-Tepa 10.000 ppm	EN 374	No breakthrough - 240 minutes

¹ HPLC is a apparatus to measure the presence of one or more specific chemicals

² Normalised breakthrough detection time is 33 minutes. See the item No. 30 of the ASTM F 1194-99



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Powder Residual Test report No: 5801/103037 – Date of Test: 23.01.2003

SGS Malaysia:	Lot. No:	Purpose:	Reference:	Result:
E3FS	0098/03	Detect Powder Residual	ASTM D-6124	1,1 mg

Viral Penetration Test report No: 142927D – Date of Test: 26.04.2002

NELSON USA:	Lot. No:	Challenge ³	Challenge ⁴	Assay ⁵	Method:	Result:
Sample 1	2703927-1	5.0 x 10 ⁸	9.7 x 10 ⁸	<1	ASTM F1671-97	Pass
Sample 2	2703927-2	5.0 x 10 ⁸	9.7 x 10 ⁸	<1	ASTM F1671-97	Pass
Sample 3	2703927-3	5.0 x 10 ⁸	9.7 x 10 ⁸	<1	ASTM F1671-97	Pass
Description		Concentration Before (PFU ⁶ /mill)	Concentration After (PFU/mill)	Titter (PFU/mill)		

Permeation Test report No: CP 44227 for (CE 0120) Certification – Date of Test: October 2003

SGS UK:	Chemicals:	Reference:	EN 374-1 Class:	Mean Breakthrough Time:
Test 1	Acetic Acid, glacial	EN 374-3	0	4 min.
Test 2	Acetone	EN 374-3	0	1 min.
Test 3	Amyl Acetate	EN 374-3	0	4 min.
Test 4	Butanol	EN 374-3	2	34 min.
Test 5	Butyl Acetate	EN 374-3	0	3 min.
Test 6	Carbon Tetrachloride	EN 374-3	0	5 min.
Test 7	Chloroform	EN 374-3	0	1 min.
Test 8	Ethanol	EN 374-3	1	14 min.
Test 9	Ethyl Acetate	EN 374-3	0	1 min.
Test 10	Petrol (unleaded)	EN 374-3	1	22 min.
Test 11	Heptane	EN 374-3	2	32 min.
Test 12	Hexane	EN 374-3	2	31 min.
Test 13	Hydrochloric Acid, 37%	EN 374-3	4	169 min.
Test 14	Methanol	EN 374-3	0	5 min.
Test 15	Methyl Ethyl Ketone	EN 374-3	0	1 min.
Test 16	Methyl Isobutyl Ketone	EN 374-3	0	2 min.
Test 17	Methyl Methacrylate	EN 374-3	0	1 min.
Test 18	Methylene Chloride	EN 374-3	0	1 min.
Test 19	Nitric Acid, 70%	EN 374-3	0	5 min.
Test 20	Pentane	EN 374-3	1	18 min.
Test 21	Petroleum Ether	EN 374-3	2	33 min.
Test 22	Phosphoric Acid	EN 374-3	6	> 480 min.
Test 23	Potassium Hydroxide, 45%	EN 374-3	6	> 480 min.
Test 24	2 - Propanol	EN 374-3	2	39 min.
Test 25	N - Propanol	EN 374-3	1	26 min.
Test 26	Sodium Hydroxide, 50%	EN 374-3	6	> 480 min.
Test 27	Stoddard Solvent	EN 374-3	2	55 min.
Test 28	Sulphuric Acid, 97%	EN 374-3	0	6 min.
Test 29	Toluene	EN 374-3	0	1 min.
Test 30	Xylene	EN 374-3	0	2 min.

Class 0 ≥ 10 min.
 Class 1 > 10 min.
 Class 2 > 30 min.
 Class 3 > 60 min.
 Class 4 > 120 min.
 Class 5 > 240 min.
 Class 6 > 480 min.

Dexterity Test: Performance Level 5

PH of Glove: 7,05 (close to neutrality)

³ The concentration of the ΦX174 bacteriophage before test was performed

⁴ The concentration of the ΦX174 bacteriophage after test was performed

⁵ Concentration of ΦX174 bacteriophage of the collected assay

⁶ Plaque forming unit

