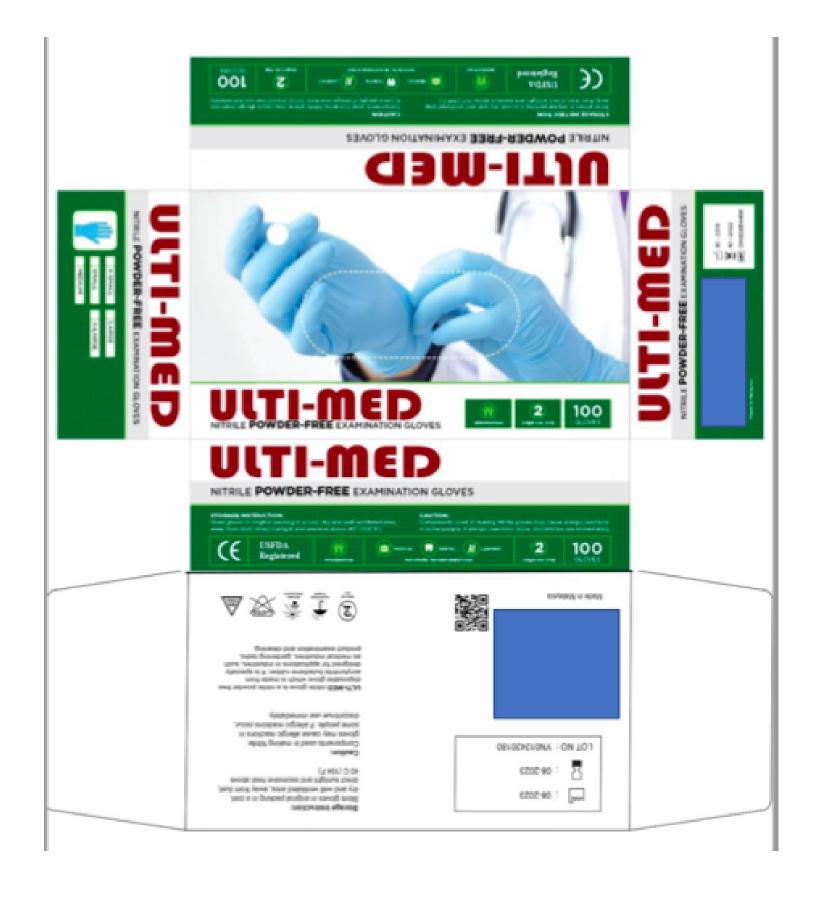


APPENDIX A: PACKAGING



Gloves Physical Dimensions

Dimensions	Standards			
	Gloves	ASTM D3578	EN 455	
Length (mm)	Min 230	Min 220 (XS , S)	Min 240	
	Min 240	Min 230 (M, L , XL)		
	300 ± 10			
Palm width (mm)				
• XS	76 ± 3	70 ± 10	≤80	
• S	84 ± 3	80 ± 10	80 ± 10	
• M	94 ± 3	95 ± 10	95 ± 10	
• L	105 ± 3	110 ± 10	110 ± 10	
• XL	113 ± 3	120 ± 10	≥110	
Thickness:				
Single wall (mm)	0.09±0.02	± 0.07		
• Finger			N/A	
• Palm	0.07±0.02	± 0.07	N/A	

Properties	ASTM D6319	EN 455
Tensile Strength (MPa)Before AgingAfter Aging	Min 14 Min 14	N/A N/A
Elongation at Break (%)Before AgingAfter Aging	Min 500 Min 400	N/A N/A
Median Force at Break (N) Before Aging After Aging	N/A N/A	Min 6 Min 6

TEST REPORT:

Date: 09

09 JAN 2014

Tel: +65 68851312 Fax: +65 67784301

Client's Ref: 221403179Rev1

Email: zhou.xiao@tuv-sud-psb.sg

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SUBJECT

Overall Migration Test for "Powder Free Nitrile Exam Gloves" Sample

CLIENT

SAMPLE SUBMISSION DATE

16 Oct 2013 & 30 Oct 2013

DESCRIPTION OF SAMPLE

A packet of sample labelled as follows was received. The tests were confirmed to be analysed on 13 Dec 2013.

Glove Type	Code	Lot No.	Size
Powder Free Nitrile Exam Gloves	N28FFB	TUV141013-01	М

DATE OF ANALYSIS

18 Dec 2013 - 06 Jan 2014

METHOD OF TEST

The sample was analysed for the following tests according to Commission Regulation (EU) No 10/2011.

Preparation of Test Specimen

Only the exterior of the glove sample was performed for the test.

 Overall Migration Content with Aqueous Food Simulant (10% Ethanol, 3% Acetic Acid, 20% Ethanol & 50% Ethanol)

According to BS EN 1186-9:2002 – Test Methods for overall migration into aqueous food simulants by article filling.

3. Overall Migration Content with Fatty Food Simulant (Olive Oil)

According to BS EN 1186-8:2002 - Test Methods for overall migration into olive oil by article filling.



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RESULTS

Table 1 : Overall Migration Content with Food Simulants for the "Powder Free Nitrile Exam Gloves, N28FFB, Lot No.:TUV141013-01" Sample

Type of Simulant	Testing Condition	Surface Area (dm²)	Volume of Extractant (ml)	Overall Migration (mg/dm²)	Commission Regulation (EU) No 10/2011 Requirement for Overall Migration Content (mg/dm²)
1. 10% Ethanol	40 °C, 2 hours	5.14	250	<1.0	<10
2. 3% Acetic Acid	40 °C, 2 hours	5.08	250	1.6	<10
3. 20% Ethanol	40 °C, 2 hours	5.11	250	<1.0	<10
4. 50% Ethanol	40 °C, 2 hours	5.12	250	2.6	<10
Vegetable Oil (Olive Oil)	40 °C, 2 hours	5.06	250	<1.0	<10

Based on the above results, the "Powder Free Nitrile Exam Gloves, N28FFB, Lot No.: TUV141013-01" sample met the overall migration requirements under Commission Regulation (EU) No 10/2011 – "Plastic materials and articles shall not transfer their constituents to foodstuffs in quantities exceeding 10 milligrams of total constituents released per dm² of food contact surface (mg/dm²) (overall migration limit)".

AN SER LING

MS TAN SER LING TECHNICAL EXECUTIVE DR XIAO ZHOU
PRODUCT MANAGER
MICROCONTAMINATION DIAGNOSIS
CHEMICAL & MATERIALS

Cc: YTY Industry (Manjung)Sdn Bhd

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