

# 455 - Metal Detectable Nitrile Glove Migration Test Report

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# **Subject**

Overall migration for 'Metal Detectable Nitrile Examination Powder Free Glove' sample.

#### **Sample Submission Date**

22<sup>nd</sup> February 2023

# **Description of Sample**

One packet of glove sample labelled as follows was received.

Number	Product Description	Ref No.
1	Metal detectable nitrile examination powder free glove	RA/131/02/2023/D2

## **Date of Analysis**

 $27^{th}$  February  $2023 - 3^{rd}$  March 2023

**Amendments** This test report 7191304035-CHM23-03-TSL-CR1 was ammended from test report 7191304035-CHM23-03-TSL-CR1 on 28<sup>th</sup> April 2023 as per the clients request to remove the sample photo.

#### **Method of Test**

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

## 1. Preparation of Test Specimen

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

### 2. Overall migration content woth aqueous food simulant (20% Ethanol)

According to BS EN 1186-9:2002 - Test methods for overall migration into aqueous food su=imulants by article filling.

#### **Results**

 Table 1 Overall migration content with food simulants for the 'metal detectable nitrile examination

powder free glove' sample.

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Type of Simulant	Testing Condition*1	Surface Area (dm²)	Volume of Extractant (ml)	Overall Migration (mg/md²)	Commission Regulation (EU) No 10/2011 Requirement for Overall Migration Content (mg/dm²) <sup>2</sup>		
1 3% Acetic Acid	40°C, 2 hours	5.42	265	4.5	<10		

<sup>\*1</sup> The testing conditions were specified by client.





<sup>\*2</sup> Analyical tolerance is 2mg/dm<sup>2</sup> Or 12mg/kg for aqueous simulants and 3mg/dm<sup>2</sup> or 20mg/kg for fatty food simulants.



Based on the above results, the 'metal detectable nitrile examination powder free glove, RA/131/02/2023/D2 met the overall migration requiremtns under Commision Regulation (EU) No 10/2011 - 'Plastic materials and articles shall not transfer their constituents to food stuffs in quantities exceeding 10 milligrams of total constituents released per dm² of food contact surface (mg/dm²) (overall migration limit)'.

# Metal Detectable Nitrile Examination Powder Free Glove

Job Ref No 2023-05-18-017 Ref No RA/220/05/2023/D2 Date sample received 18<sup>th</sup> May 2023 Testing period 18<sup>th</sup> May 2023 - 26<sup>th</sup> May 2023

#### **Result Summary**

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

#### **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/inch²)	Reporting Limit (mg/inch²)	Permissible Limit (mg/inch²)
Distilled Water	Reflux temp for 7 hours	2.2	0.2	20
	Succeeding 2 hours of extraction	0.6	0.2	1
Comment	-	PASS	-	-

Extractant	Test Condition	Result (mg/inch²)	Reporting Limit (mg/inch²)	Permissible Limit (mg/inch²)
n-Hexane	Reflux temp for 7 hours	0.7	0.2	175
	Succeeding 2 hours of extraction	N.D.	0.2	4
Comment	-	PASS	=	-

**Note** 1. mg/inch<sup>2</sup> milligram per square inch

2 N.D. = Not Detected

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Helen Morrison
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