



**COUNTY OF ERIE  
DIVISION OF PURCHASE  
MEMORANDUM**

**TO:** All Using Departments  
**FROM:** Tricia Pierce, Buyer  
**DATE:** November 20, 2025  
**SUBJECT:** Contract for Nitrile Powder Free Exam Gloves  
Bid number 250187-004

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This is to advise you that there is a new contract for Nitrile Powder Free Exam Gloves.. The successful bidder is Shamrock Manufacturing. The prices are firm from November 1, 2025 through October 31, 2026.

For your convenience the contract prices are listed on the attached sheet. There is no minimum order.

# County of Erie

## DIVISION OF PURCHASE

### BID SPECIFICATIONS

#### BID NO 250187-004

Ship to: County of Erie  
 Attention: Various Departments  
 Address:

Ship Via: Most Economical Way  
 Date Required at Destination: Immediate

ITEM NO.	QUAN-TITY	UM	CATALOG NO./DESCRIPTION	UNIT PRICE	TOTAL PRICE
10	1	CS	Black Seal Powder Free 6 mil Nitrile Gloves SZ. Small	\$35	
			Item #777cs-sm 10 boxes of 100 gloves per case		
			Sub # 36011		
20	1	CS	Black Seal Powder Free 6 mil Nitrile Gloves SZ. Medium	\$35	
			Item #777cs-m 10 boxes of 100 gloves per case		
			Sub # 36012		
30	1	CS	Black Seal Powder Free 6 mil Nitrile Gloves SZ. Large	\$35	
			Item #777cs-l 10 boxes of 100 gloves per case		
			Sub # 36013		
40	1	CS	Black Seal Powder Free 6 mil Nitrile Gloves SZ. X-Large	\$35	
			Item #777cs-xl 10 boxes of 100 gloves per case		
			Sub # 36014		

PLEASE NOTE: ALTERNATIVE PRODUCTS AND SERVICES WILL BE EVALUATED AS PER BIDDER INSTRUCTION #19

**NOTE:** Bid results cannot be given over the phone. All requests for bid results should be submitted in writing or faxed to:

**ERIE COUNTY DIVISION OF PURCHASE**  
 Freedom of Information Officer  
 95 Franklin Street, Rm. 1254  
 Buffalo, NY 14202  
 FAX #: 716/858-6465

**TOTAL NET BID DELIVERED INSIDE** \_\_\_\_\_

**NAME OF BIDDER** Shamrock Manufacturing Co., Inc.

(Rev. 9/95)

ERIE COUNTY OFFICE BUILDING, 95 FRANKLIN STREET, BUFFALO, NEW YORK 14202 (716) 858-6336



## 36000 SERIES

### POWDER FREE NITRILE EXAMINATION GLOVES FULLY TEXTURED BLACK

Our premium, 100% LATEX FREE, powder free Nitrile Exam Glove provides excellent chemical splash resistance and puncture resistance. This glove provides exceptional elasticity and strength, is comfortable to wear for extended use and has a textured grip for use in wet and dry conditions.



### GLOVE SPECIFICATIONS

WEIGHT & DIMENSION			
Reorder#	Size	Length	Palm Width
36011	Small	240 ± 10mm	85 ± 5mm
36012	Medium	240 ± 10mm	90 ± 5mm
36013	Large	240 ± 10mm	100 ± 5mm
36014	X-Large	240 ± 10mm	110 ± 5mm
36015	XX-Large	240 ± 10mm	115 ± 5mm

MIL THICKNESS (SINGLE WALL)		
	Palm	Finger
All Sizes	5.5mil	6.0mil

PHYSICAL PROPERTIES	
	Before Aging
Tensile Strength Mpa (minimum)	14
Ultimate Elongation % (minimum)	500

PERFORMANCE REQUIREMENTS			
Characteristic	Related Defect	Inspection Level	AQL
Freedom from holes	Holes, lumps	FDA As per 21 CFR	1.5
Physical dimension	Length, width and	S - 2	4
Physical properties	Before aging and after	S - 2	4
Visual defect	Stains etc.	S - 4	2.5

PACKAGING	
10 boxes/case	100 gloves/box (by weight)

April 26, 2023

## •TEST REPORT•

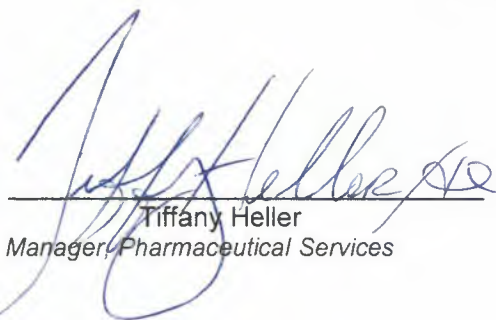
PN 169107 – Rev 1

### PHARMACEUTICAL SERVICES

Prepared For:

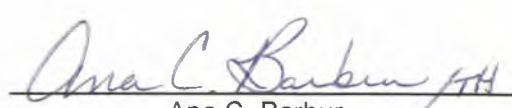
Jeni Chuason  
**Shamrock Manufacturing Co., Inc.**  
5445 Daniels St.  
Chino, CA 91710-9009

Prepared By:

  
Tiffany Heller  
Manager, Pharmaceutical Services

DCN 1176

Approved By:

  
Ana C. Barbur  
Vice President, Chemical & Analytical Services



Cert. 225-01, 255-02, 255-03, 255-04

An A2LA ISO 17025 Accredited Testing Laboratory-Certificate Numbers 255-01, 255-02, 255-03 and 255-04  
ISO 9001:2015 Registered

ISO 9001:2015

Registered

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www.ardl.com | 2887 Gilchrist Rd. | Akron, OH 44305 | 75 Robinson Ave. | Barberton, OH 44203 | answers@ardl.com  
Toll Free (800) 830-ARDL | Fax (330) 794-6610 | Worldwide (330) 794-6600

April 26, 2023

Jeni Chuason  
Shamrock Manufacturing Co., Inc.

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**SUBJECT:** Permeation Testing per ASTM D6978-05(2019) on samples submitted by the above company.

**RECEIVED:** One (1) glove type identified by customer as; Nitrile Black Examination Gloves, Lot Number 23022801, Size Medium.

**TEST CHEMICALS:**

Table 1. List of the Testing Drugs and their Sources

TESTING CHEMOTHERAPY DRUGS	DRUG SOURCE
Fentanyl Citrate Injection, 100mcg/2mL	USP; Lot# R128C0; Expiration 05/2023

**COLLECTION MEDIA:**

Table 2. Collection Media for Test Drug

TESTING CHEMOTHERAPY DRUGS	COLLECTION MEDIA
Fentanyl Citrate Injection, 100mcg/2mL	Distilled Water

**TESTING CONDITIONS:**

Standard Test Method Used:	ASTM D6978-05(2019)
Permeation Test Cell Size:	1" Permeation Cell
Analytical Method:	UV/VIS Spectrometry
Testing Temperature:	35.0°C ± 2.0
Collection System:	Closed Loop
Specimen Area Exposed:	5.067 cm <sup>2</sup>
Selected Data Points:	25/test
Number of Specimens Tested:	3/test
Location Sampled From:	Cuff

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#### **DETECTION METHOD OF CHEMICAL PERMEATION:**

##### **UV/VIS ABSORPTION SPECTROMETRY:**

Instrument: Perkin Elmer UV/VIS Spectrometer Lambda 25

UV/VIS Absorption Spectrometry was used to measure the absorbance of test chemicals, which permeated through the specimens into the collection medium. The collection medium was circulated in a closed loop through the testing period. Data collection was performed according to the programmed schedule by means of UV Winlab software from the Perkin Elmer Corporation. The list of the characteristic wavelengths is shown below.

Table 3. Characteristic Wavelengths used in UV/VIS Absorption Spectrometry

TESTING CHEMOTHERAPY DRUGS	WAVELENGTH (nm)
Fentanyl Citrate Injection, 100mcg/2mL	199

##### **SAMPLE CHARACTERISTICS:**

Table 4. Thickness characteristics for the tested: Nitrile Black Examination Gloves, Lot Number 23022801, Size Medium.

Testing Drug	Thickness (mm)			Average (mm)
	Sample 1	Sample 2	Sample 3	
Fentanyl Citrate Injection, 100mcg/2mL	0.088	0.086	0.084	0.086
Weight/Unit Area (g/m2)	88.4			

##### **RESULTS:**

Table 5. Permeation Test Results on testing of: Nitrile Black Examination Gloves, Lot Number 23022801, Size Medium.

TEST CHEMOTHERAPY DRUGS	MINIMUM BREAKTHROUGH DETECTION TIME (Specimen1/2/3) (Minutes)	AVERAGE STEADY STATE PERM. RATE (Specimen1/2/3) (µg/cm <sup>2</sup> /minute)	OTHER OBSERVATIONS
Fentanyl Citrate Injection, 100mcg/2mL	>240 min.	N/A	Slight swelling and degradation

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Shamrock Manufacturing Co., Inc.

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**SAMPLES RECEIVED:**  
Nitrile Black Examination Gloves,  
Lot Number 23022801, Size Medium



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April 26, 2023

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## **APPENDIX**

**Testing Location:** 2887 Gilchrist Road, Akron Ohio 44305

### **Decision Rules**

**Customer Selected Decision Rule:** Decision Rule 1

#### **RULE 1.**

This is the way test results have traditionally been reported by ARDL. If ARDL runs a test for you that has pass/fail requirements, ARDL will report the values observed and then state "Pass" or "Fail", based on those values only. By default, ARDL will apply this rule to all Category I tests and those tests which are not on ARDL's Scope of Accreditation.

#### **RULE 2.**

This rule takes into account the calculated measurement uncertainty of test results generated. Every test and piece of test equipment has an inherent amount of measurement uncertainty associated with it. Rule 2 establishes "Guard Bands", where the measurement uncertainty value is added to the Minimum Passing requirement and is subtracted from the Maximum Passing requirement. The Pass/Fail requirements thus become tighter and customers may be more "Certain" of their Pass/Fail result.

#### **RULE 3.**

This rule also takes into account measurement uncertainty but does not set up guard bands. Rule 3 may be used when values are reported, but there is no Pass/Fail requirement called out in the test specification. Rule 3 simply states that the measurement uncertainty is reported to the customer, along with the testing result generated, and the customer decides if the results are suitable for their purposes.

### **REPORT REVISIONS:**

#### **DATE**

04/20/2023  
04/26/2023

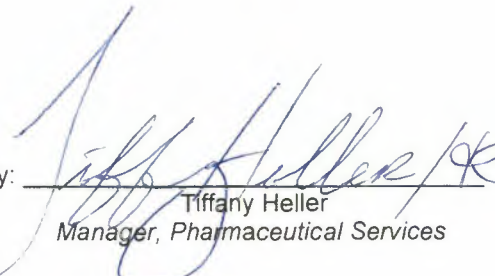
#### **REVISION #**

N/A  
Rev 1


#### **DETAILS**

Original Final Report  
Corrected company name

Prepared By:

  
Tiffany Heller  
Manager, Pharmaceutical Services

Approved By:

  
Ana C. Barbur  
Vice President, Chemical & Analytical Services

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