	TH AND HUMAN SERVICES G ADMINISTRATION
DISTRICT ADDRESS AND PHONE NUMBER	DATE(S) OF INSPECTION
4040 North Central Expressway, Suite 300	9/14/2016-10/14/2016*
Dallas, TX 75204	FEI NUMBER
(214) 253-5200 Fax: (214) 253-5314	3004483441
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED	·
James L. McCarley , CEO	
FIRM NAME	STREET ADDRESS
Cantrell Drug Company	7321 Cantrell Rd
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED
Little Rock, AR 72207-4144	Outsourcing Facility

This document lists observations made by the FDA representative(s) during the inspection of your facility. They are inspectional observations, and do not represent a final Agency determination regarding your compliance. If you have an objection regarding an observation, or have implemented, or plan to implement, corrective action in response to an observation, you may discuss the objection or action with the FDA representative(s) during the inspection or submit this information to FDA at the address above. If you have any questions, please contact FDA at the phone number and address above.

DURING AN INSPECTION OF YOUR FIRM WE OBSERVED:

OBSERVATION 1

Aseptic processing areas are deficient regarding the system for cleaning and disinfecting the room and equipment to produce aseptic conditions.

Specifically, the following deficiencies were observed during the current inspection:

1. Cleaning solutions were observed stored on rolling carts adjacent to ISO 5 Hoods inside of ISO 7 Rooms (b) (4) and (b) (4) On 9/15/16 operators inside of ISO 7 Room (b) (4) were observed spraying (b) (4) on sterile wipes to clean equipment and surfaces outside of the ISO 5 Hood. The sterile wipes were stored openly on a rolling cart and came in contact with the spray mist of (b) (4) , the container of (b) (4) sleeves of operator gowning and gloves, surface of the metal cart, and paper transferred from the non-classified area. The sterile wipes were subsequently observed being used to clean the inside of the ISO 5 Hoods with (b) (4) and Sterile(b) (4)

The firm utilizes the following agents for cleaning the ISO 5, 7 and 8 areas:

Cleaning Agent	Area of	Use	Contact Time
Sterile (b) (4)	ISO 5 Hoods, sterile glove	es	(b) (4)
*Note:Contact time of (b) (other surfaces outside of late		Disinfectant study did n . Contact time	

EMPLOYEE(S) SIGNATURE		DATE ISSUED
Latorie S Jones, Investigator Lisa R Jennings, Investigator	10/14/2016 X Latorie 5 Jones	10/14/2016
Shelby N Marler, Generic Drug User Fee Amendments (GDUFA)	Latorie S Jones Investigator Signed by: Latorie S, Jones -S	

FORM FDA 483 (09/08) PREVIOUS EDITION OBSOLETE INSPECTIONAL OBSERVATIONS PAGE 1 OF 22 PAGES

	TH AND HUMAN SERVICES G ADMINISTRATION
DISTRICT ADDRESS AND PHONE NUMBER 4040 North Central Expressway, Suite 300 Dallas, TX 75204	DATE(S) OF INSPECTION 9/14/2016-10/14/2016* FEI NUMBER
(214)253-5200 Fax: (214)253-5314	3004483441
James L. McCarley , CEO	
FIRM NAME	STREET ADDRESS
Cantrell Drug Company	7321 Cantrell Rd
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED
Little Rock, AR 72207-4144	Outsourcing Facility
steel pleyiglass and glass surfaces was r	

(b) (4) (b) (4)	ISO 5 Hoods, ISO 7 Buffer Room, ISO 8 Ante Room	(b) (4)
Non-Sterile (b) (4) (b) (4)	Ceilings, Walls and Floors of ISO 7 Buffer Room and ISO 8 Ante Room	(b) (4)
(2)	cist-in-charge) stated your (b) (4) is prepared using (b) (4) (b) (4) Your disinfectant study contact time of (b) (4)	is based on

Despite your firms use of "sporicidal agent" multiple spore forming microorganisms have been recovered in your ISO 5 environment during periods when your firm was producing products purporting to be sterile. For example,

Date	Location		Identification
9/15/16	Room (b) (4	Hood (b) (4)	Bacillus cereus
9/13/16	Room	Hood	Lysinibacillus sinduriensis
9/12/16	Room	Hood	Rhizopus oryzae*
9/9/16	Room	Hood	Bacillus simplex/Brevibacterium (Bacillus) frigoritolerans
9/1/16	Room	Hood	Bacillus amyloliquefaciens/methylotrophicus
9/1/16	Room	Hood	Bacillus circulans

	EMPLOYEE(S) SIGNATURE		DATE ISSUED
	Latorie S Jones, Investigator Lisa R Jennings, Investigator	10/14/2016	10/14/2016
OF THIS PAGE	Shelby N Marler, Generic Drug User Fee Amendments (GDUFA)	Latorie 5 Jones Latorie 5 Jones Investigator Signed by: Latorie 5, Jones -5	

FORM FDA 483 (09/08) PREVIOUS EDITION OBSOLETE INSPECTIONAL OBSERVATIONS PAGE 2 OF 22 PAGES

		TH AND HUMAN SERVICE ADMINISTRATION	ES
DISTRICT ADDRESS AND PHONE NUMBER		DATE(S) OF IN	SPECTION 016-10/14/2016*
4040 North Central Expressway, Suite 300 Dallas, TX 75204 (214)253-5200 Fax:(214)253-5314		FEI NUMBER 300448	
NAME AND TITLE OF INDIVIDUAL TO WHOM R			
James L. McCarley			
FIRM NAME Cantrell Drug Compa		street ADDRESS 7321 Cantrell R	d
Cantrell Drug Compa	any	TYPE ESTABLISHMENT INSPECTED	<u>a</u>
Little Rock, AR 722	207-4144	Outsourcing Fac	ility
8/24/16 Room ⁶	h) (4) Hood (b) (4) Bacillus cereu	ıs	
8/17/16 Room	Hood Bacillus cerei	ıs	
*Note: Recovery	was Mold		
Furthermore vo	our (b) (4) manufacturer's ins	truction for use states	s a BUD of (b) (4)
	oserved expiration dates of 2		
	hout any scientific justificat		
2 Voya an anaton f	icited to adaptate conition	the IV been including	as the "hells button" (needle
			ng the "belly button" (needle O 5 hood and performing a needle
- 6			bags, lot #168094, (b) (4) units on
	100	s used to (b) (4)	sags, for #100054,
		are subsequently (b)	(4)
3 Corded and wi	reless computer mouses wit	h scroll wheels did n	ot contain any protective
Section of the sectio	reminent in franchische 😛 alle führ er führe eine von eine eine Frieder in		5 hoods, laptops containing
	10.00 Mg 44.00		Hoods were observed being
used, and porta	ble walkie talkies and wall	mounted phones wer	re observed in use in the ISO 7
Buffer Room.	The aforementioned did not	appear to be easily c	leanable surfaces.
OBSERVATION 2	100 200		
		ntamination of drug	products purporting to be sterile
are not established, wri	tten and followed.		
particular residence in the second of the second in the se	s)signature ie S Jones, Investigat	or	DATE ISSUED 10/14/2016
OF THIS PAGE Lisa	R Jennings, Investigat	or	X Latorie S Jones
	y N Marler, Generic Dr ments (GDUFA)	ug User Fee	Latorie S Jones Investigator Signed by: Latorie S, Jones -S

INSPECTIONAL OBSERVATIONS

PAGE 3 OF 22 PAGES

FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

	TH AND HUMAN SERVICES G ADMINISTRATION
DISTRICT ADDRESS AND PHONE NUMBER	DATE(S) OF INSPECTION
4040 North Central Expressway, Suite 300	9/14/2016-10/14/2016*
Dallas, TX 75204	FEI NUMBER
(214) 253-5200 Fax: (214) 253-5314	3004483441
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED	
James L. McCarley , CEO	
FIRM NAME	STREET ADDRESS
Cantrell Drug Company	7321 Cantrell Rd
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED
Little Rock, AR 72207-4144	Outsourcing Facility

Specifically,

- Your media fills do not represent the batch size, worst case scenario or the most challenging conditions. For example,
 - a. Your firm's average batch size is approximately (b) (4) units with a maximum production up to (b) (4) units. Batches are produced (b) (4) in which operators are allotted to exit the cleanrooms up to (b) (4)
 - b. Your firm uses various size containers and closures such as IV bags, syringes, vials, (b) (4) cassettes, (b) (4) vials. However, the most recent media fills in (b) (4) utilized either (b) (4)

This is repeat observation from the last FDA inspection conducted 10/15/13-11/4/13.

- 2. The following deficiencies in aseptic technique were observed during the inspection:
 - a. Operators with their upper body inside of the ISO 5 hood during aseptic filling which could potentially interrupt unidirectional flow and prevents first pass air.
 - b. Failure to adequately sanitize gloves. For example,
 - i. On 9/14/16 operator (0.7) was observed touching tubing outside of the ISO 5 hood then re-entering the hood without sanitizing or changing gloves during the filling of Norepinephrine 32mcg/mL in 0.9%NaCl-250mL bag, lot #9042, in hood (b) (4).

EMPLOYEE(S) SIGNATURE	DATE ISSUED
Latorie S Jones, Investigator Lisa R Jennings, Investigator X Latorie S Jones	10/14/2016
Shelby N Marler, Generic Drug User Fee Latoric 5. Jones Investigator Amendments (GDUFA) Latoric 5. Jones -5	

FORM FDA 483 (09/08) PREVIOUS EDITION OBSOLETE INSPECTIONAL OBSERVATIONS PAGE 4 OF 22 PAGES

	TH AND HUMAN SERVICES G ADMINISTRATION
DISTRICT ADDRESS AND PHONE NUMBER	DATE(S) OF INSPECTION
4040 North Central Expressway, Suite 300	9/14/2016-10/14/2016*
Dallas, TX 75204	FEI NUMBER
(214)253-5200 Fax: (214)253-5314	3004483441
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED	<u> </u>
James L. McCarley , CEO	
FIRM NAME	STREET ADDRESS
Cantrell Drug Company	7321 Cantrell Rd
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED
Little Rock, AR 72207-4144	Outsourcing Facility

- ii. On 9/15/16 multiple operators were observed placing a sterile wipe in one gloved hand and using the opposite gloved hand to spray cleaning solution on to the sterile wipe. The side of the sterile wipe soaked with cleaning solution is then placed into the opposite hand followed by the operator using the same sterile wipe to clean inside of the ISO 5 hood. The gloves were not adequately sanitized or changed prior to exiting and reentry of the ISO 5 hood.
- iii. Operator sprayed cloth in one hand with sterile cleaning solution then used proceeded to clean inside of the ISO 5 hood. The second gloved hand of the operator was then placed inside of the ISO 5 hood without sanitizing or changing the gloves.
- b. Your operator failed to adequately sanitize all sides of sterile(b) (4) pads prior to placing them inside of the ISO 5 hood while compounding Heparin 5,000 units in NS-1,000mL bags, lot #168094, (b) (4) units on 9-15-16.
- c. Operating gowning, especially the sleeves and upper body, continuously come in contact with various items in the ISO 7 Buffer Room which have not been sanitized such as plastic totes moved from the non-classified area, underside of hood and table, and cords and equipment located under the ISO 5 hood. Operator gowning is not changed prior to producing products purporting to be sterile inside of the ISO 5 hood.
- d. Exposed skin was observed around the goggles, facemask and neck of multiple operators on 10/12/16.
- 3. Your firm has not validated the sterilization process ((b) (4) and (b) (4)) for finished drug products and laboratory equipment or (b) (4) used for finished drug products

EMPLOYEE(S) SIGNATURE	DATE ISSUED
Latorie S Jones, Investigator Lisa R Jennings, Investigator X Latorie S Jones	10/14/2016
Shelby N Marler, Generic Drug User Fee Latoric 5. Jones Investigator Amendments (GDUFA) Latoric 5. Jones -5	

FORM FDA 483 (09/08) PREVIOUS EDITION OBSOLETE INSPECTIONAL OBSERVATIONS PAGE 5 OF 22 PAGES

	DEPARTMENT OF HEAL'			S			
AOAO North Co			Q / 1 / / 2 (016-10/14/2016*			
	Dallas, TX 75204		FEI NUMBER	o present	4/2010		
(214) 253-5200 Fax: (214) 253-5314		3004483	3441				
NAME AND TITLE OF INDIVIDUA	AL TO WHOM REPORT ISSUED						
James L. McCa	arley , CEO						
FIRM NAME		STREET ADDRESS					
Cantrell Drug		7321 Cant		ls:			
Selection of selecting the selection of	AR 72207-4144	Outsourc		lity			
	oratory equipment in your firm. You an unclassified area. Your firm steril				Transcourse season care	h housed	and
8144	shed product (b) (4)	izes laborat		nished dr		rct (b) (/	I N
	3 6 3 6	o auri i de monde abada a			HICEPAL I	And the Control of th	')
(b) (4)	THE RESIDENCE OF THE PERSON OF	on, records		and the second second			
CARPORT CONTRACTOR CONTRACTOR	ed for (b) (4) sterilization, fo	11 (4) (4) (4) (4) (4) (4) (4)	two diffe			r the	
sterilizat	tion of Glycerin lot number 165184	. , , ,		Mary or the state of	ed by (b)	(4)	at a
(b) (4)	Glycerin lot number 159	520 and 16	0871 had	(b) (4)		and	
Glycerin	lot number 167466 and 166419 ha	d(b)(4)		• • • • • • • • • • • • • • • • • • • •			
		THE STANDARD OF THE STANDARD O				196	
This is repea	at observation from the last FDA in	spection co	onducted	10/15/1	3-11/4/1	3.	
4 All plassw	vare (including (b) (4) and all metal v	vare (includi	ng (h) (4)	V.			
(b) (4)	vare (including (b) (4) and an inetal v	are (b) (4		shed and	dried in a	dishwash	er
Venner of Control of	(4) Detergent or (b) (4) rinsed with		· U · · · · · · ·	by (b) (4)	A STATE OF THE STATE OF	A CARLO STATE OF THE STATE OF T	b) (4)
The second secon	our firm has not demonstrated these m			A STATE OF THE STA	4 2.	tion of	NAME OF TAXABLE PARTY.
	s. Furthermore, your firm does not use		0 0	Self Charles	The same of the sa		10
dishwash		arry blologic	ai maicato	r during ti	ic di ying	cycle iii ti	
distivusii							
5. Your firm	n failed to conduct smoke studies u	nder dynan	nic condit	ions.			
ODGEDYATIO	NAT 2						
OBSERVATIO	oned areas to prevent contamination		ara dafiai	ant racer	lina ana	rations ro	latad
	ssing of drug products.	or mix-ups	are defici	em regard	ing oper	ations le	lateu
to aseptic proces	ssing of drug products.						
Specifically, your clean room facility design is insufficient in that:							
1							
	EMPLOYEE(S) SIGNATURE				1	DATE ISSUED	
SEE REVERSE	Latorie S Jones, Investigato		Ì		10/14/2016	10/14/2	2016
OF THIS PAGE	Lisa R Jennings, Investigato Shelby N Marler, Generic Dru		_	X Latorie S Jones	nes		
	Amendments (GDUFA)	ig user re		Investigator Signed by: Latorie S. 3o	nes-S	<u></u>	

INSPECTIONAL OBSERVATIONS

PAGE 6 OF 22 PAGES

FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION				
DISTRICT ADDRESS AND PHONE NUMBER	DATE(S) OF INSPECTION			
4040 North Central Expressway, Suite 300	9/14/2016-10/14/2016*			
Dallas, TX 75204 (214)253-5314	3004483441			
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED	·			
James L. McCarley , CEO	1111			
FIRM NAME	STREET ADDRESS			
Cantrell Drug Company	7321 Cantrell Rd			
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED			
Little Rock, AR 72207-4144	Outsourcing Facility			

- 1. The ceiling tiles in (b) (4) of your ISO 7 clean rooms ((b) (4)) contained approximately 1/4"- 1/2" gaps around the HEPA filters and light fixtures.
- 2. A blackish substance was observed in the approximately ½" gap of the ceiling light adjacent to the HEPA filter in ISO 8 Ante Room (b) (4) where products such as intrathecals are prepared (b) (4). The duct work could be seen through the gaps. The products are transferred to the ISO 7 Buffer Room and (b) (4) in an ISO 5 Hood. The following intrathecal syringes were prepared in Room (b) (4) and were released:

Product	Lot
Hydromorphone 20mg/mL intrathecal syringe	168211
Morphine/Baclofen/Clonidine 20mg/90mcg/55mcg/mL intrathecal syringe	168139
Morphine 50mg/mL intrathecal syringe	168240
Fentanyl 100mcg/mL intrathecal syringe	168119
Hydromorphone/Baclofen 20mg/625mcg/mL intrathecal syringe	168213

- 3. The air returns located in the ISO 8 Buffer Room (b) (4) appeared to be a reddish-brownish color consistent with rust. Additionally, the return above the sink appeared to have a whitish substance.
- 4. ISO 7 Buffer Room (b) (4) contained exposed porous surfaces from approximately 1" tears in the epoxy flooring throughout the room which included areas in front of the ISO 5 hoods where

EMPLOYEE(S) SIGNATURE	DATE ISSUED
Lisa R Jennings, Investigator X Latorie S Jones	10/14/2016
Shelby N Marler, Generic Drug User Fee Amendments (GDUFA) Latoric S Jones Livestigator Supred by: Latoric S. Jones - S	

FORM FDA 483 (09/08) PREVIOUS EDITION OBSOLETE INSPECTIONAL OBSERVATIONS PAGE 7 OF 22 PAGES

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION				
DATE(S) OF INSPECTION				
9/14/2016-10/14/2016*				
FEI NUMBER				
3004483441				
·				
STREET ADDRESS				
7321 Cantrell Rd				
TYPE ESTABLISHMENT INSPECTED				
Outsourcing Facility				

products purporting to be sterile are produced. The following products were manufactured in Room (b) (4):

Date Made	Product	Lot
9/15/16	Calcium Chloride 10G in NS 500mL bags	168032
9/19/16	Cardioplegia 4:1Solution-1,00mL bags	168346
9/19/16	Methacholine 0.125mg/mL-6mL syringe	168338

- 5. (b) (4) (b) (4) were noted as cracked during the inspection and were still being utilized during normal production activities. The firm placed a sign stating "decommissioned" on (b) (4) of the cracked (b) (4) located between ISO 8 Room (b) (4) and ISO 7 Room (b) (4) to prevent further use. This action was taken after the cracked (b) (4) was observed by the FDA investigators.
- 6. Reddish-brownish colored surfaces were noted at the base of the Plexiglass at the glass-metal juncture in the ISO 5 hoods visible in ISO 7 Buffer Room (b) (4) and ISO 7 Buffer Room (b) (4).
- 7. Approximately 1" tears in length were observed in the epoxy flooring adjacent to the ISO 5 Hood in ISO 7 Buffer Room (b) (4). Furthermore, scuffed walls were also observed in this room adjacent to the ISO 5 Hood.
- 8. On 9-16-16, we observed your firm's (b) (4) contained labeled and unlabeled totes containing products at different statuses: finished drug products ready for shipment, rejected products, quarantined products, bulk drugs, retain samples, and samples marked for destruction. Products of all statuses were comingled within the (b) (4) In addition, on 9-15-16,

 EMPLOYEE(S) SIGNATURE	DATE ISSUED
Lisa R Jennings, Investigator X Latorie S Jones	10/14/2016
Shelby N Marler, Generic Drug User Fee Amendments (GDUFA) Latoric S Jones Linvestigator Signed by: Latoric S. Jones - S	

FORM FDA 483 (09/08) PREVIOUS EDITION OBSOLETE INSPECTIONAL OBSERVATIONS PAGE 8 OF 22 PAGES

	DEPAR	TMENT OF HEALTH AND FOOD AND DRUG ADMIN		VICES		
4040 North Co	ne number entral Expressway,	Suite 300	2.5	of inspection 1/2016-10/14	1/2016*	
Dallas, TX 7	s, TX 75204		FEI NUMI		1,2010	
James L. McC	arley , CEO	1	•			
Cantrell Druc		7321	ADDRESS Cantrell TABLISHMENT INSPEC			
Little Rock,	AR 72207-4144	Outs	ourcing E	Tacility		
OBSERVATION OF THE PROPERTY OF	erved the staging area ts at different statuses ON 4 s relative to appropriat	similar to that of the	e(b) (4)			
followed.	relative to appropriat	e laboratory testing	ior sterinty	and pyrogen	o are not wi	rtten and
Specifically,						
by your for (P&P) 7.2 be verified specialist to count and a stated "I Your firm contained retesting was achieved."	ed (b) (4) t stated events are desig	method suitability for Testing Protocol, effective Inconclusive, effective as necessary before gnated as inconclusive mples of what a posit al would look like".	or all productive 2-1-16 e 7-2-15 do not classifying a first in they appoint ive signal the susing the realways subnotting and report in the string and s	ts tested. Your and P&P 7.201 not establish a a result as incor ear "suspect" o at a viable micr . On 10-5 emaining samp	Policy and P L(R1) titled (I threshold of nclusive. You or TNTC (too roorganism of -16 your ope ole from the party laborat	rocedure b) (4) f events to ur QC numerous could erator original cory for
Tested	Todder			Lour	Events*	Shipped
SEE REVERSE OF THIS PAGE	EMPLOYEE(S) SIGNATURE Latorie S Jones, Lisa R Jennings,	Investigator		X Latorie S Jon	10/14/2016 1 0	E ISSUED 0/14/2016
	Shelby N Marler, Amendments (GDUF)	0.77	er ree	Latorie S Jones Investigator Signed by: Latorie S, Jon	es-S	
FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLETE	INSPECTIO	ONAL OBSERV	ATIONS	F	PAGE 9 OF 22 PAGES

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION DISTRICT ADDRESS AND PHONE NUMBER 4040 North Central Expressway, Suite 300 9/14/2016-10/14/2016* Dallas, TX 75204 3004483441 (214) 253-5200 Fax: (214) 253-5314 NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED James L. McCarley , CEO FIRM NAME STREET ADDRESS Cantrell Drug Company 7321 Cantrell Rd CITY, STATE, ZIP CODE, COUNTRY TYPE ESTABLISHMENT INSPECTED Little Rock, AR 72207-4144 Outsourcing Facility

9/9/16	Fentanyl Citrate 2mcg/mL & Ropivacaine HCl 0.2% in 0.9% NaCl-100mL bag	167652	23	(b) (4)
8/18/16	Norepinephrine 4mg (16mcg/mL) Added to Dextrose-250mL bag	8917	215	
8/11/16	Ropivacaine HCl 1% Concentrate-50mL syringe	166733	676	
6/24/16	Glycopyrrolate 0.2mg/mL-1mL syringe	8637	61	
6/9/16	Phentolamine Mesylate 5mg/mL-10mL syringe	163913	550	
6/9/16	Heparin Sodium 5,000 USP units added to NaCl-500mL bag	8566	391	
6/3/16	Oxytocin 20 USP added to Lactated Ringer's-100mL bag	8542	1119	
5/24/16	Oxytocin 20 USP added to 0.9% NaCl-1000mL bag	8489	223	
5/24/16	Sodium Citrate 30% in Sterile Water for Injection-55mL vials	163006	2032	
5/18/16	(b) (4) Intrathecal Samples	Multiple**	248	
3/24/16	Fentanyl Citrate 3000mcg (10mcg/mL) in 0.9% NaCl-300mL bag	160875	12***	
4/2/15	Amiodarone 450mg added to 5% Dextrose-250mL bag	6270	9****	

*Detected Events are those detected by (b) (4) which require (b) (4) operator. The events could be viable microorganisms, particulates, or (b) (4)

by the

This is repeat observation from the last FDA inspection conducted 10/15/13-11/4/13.

2. Your P&P 7.190 (R3) titled Endotoxin testing using the (b) (4) effective 3-4-16 and 7.192.0 titled Endotoxin testing using the (b) (4) effective 5-16-16, do not define a criterion for retesting endotoxin levels until a result of passing is achieved. Your

	EMPLOYEE(S) SIGNATURE		DATE ISSUED
SEE REVERSE	Latorie S Jones, Investigator	10/14/2016	10/14/2016
OF THIS PAGE	Lisa R Jennings, Investigator	Latorie 5 Jones	
	biletby in Harrier, deficite brag ober rec	orie S Jones restigator ned by: Latorie S. Jones -S	

FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

INSPECTIONAL OBSERVATIONS

PAGE 10 OF 22

^{**}Individual intrathecal lot numbers:162847, 163050, 162972, 162920, 162867, 162870, 162974, 162976, 163048, 162878, 162969, 163046, 162916

^{***}Product had 12 events detected and 4 events identified as microorganism suspects.

^{****}Product had 9 events detected and 5 events identified as microorganism suspects. Product samples sent to 2 different laboratories: 1 failing result (gram positive rods-Propionibacterium acnes) and 1 passing result.

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION DISTRICT ADDRESS AND PHONE NUMBER 4040 North Central Expressway, Suite 300 9/14/2016-10/14/2016* Dallas, TX 75204 3004483441 (214)253-5200 Fax: (214)253-5314 NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED James L. McCarley , CEO FIRM NAME STREET ADDRESS 7321 Cantrell Rd Cantrell Drug Company TYPE ESTABLISHMENT INSPECTED CITY, STATE, ZIP CODE, COUNTRY Little Rock, AR 72207-4144 Outsourcing Facility

firm routinely fails to initiate or adequately investigate endotoxin failures. Your firm utilizes the (b) (4) (b) (4) . Your firm tested the following products 2-5 times prior to receiving a passing result and releasing the product into the market:

Date Tested	Product	Lot#	Number of Fails In-House	Passing Result prior to shipment	Date Shipped
7/7/16	Cardioplegic Solution	164863	1	Yes-In-House	(b) (4)
5/23/16	Sodium Citrate 30% in Sterile Water for injection-55mL vial	163006	2	Yes-3 rd party	
5/5/16	Glycopyrrolate 0.2mg/mL Concentrate	8356	4	Yes-3 rd party	-
1/18/16	Edetate Disodium	158067	2	Yes-3 rd party	-
1/18/16	Edetate Disodium	157992	2	Yes-3 rd party	-
12/17/15	Fentanyl Citrate	156801	1	Yes- In-house	-
9/14/15	Ethanol 95%-10mL vial	152927	5	Yes- 3 rd party	-
5/6/15	Zinc Sulfate 1mg/mL Concentrate	148001	4	Yes-3 rd party	

Furthermore, on 7-5-16 your firm produced and then performed endotoxin testing on Cardiac Reperfusate Solution ((b) (4), (b) (6)), Lot #165116, 188mL bags three times before submitting

545 - 64596 - 187 - 1885 - 1886 - 1886 - 1886	EMPLOYEE(S) SIGNATURE		DATE ISSUED
SEE REVERSE	Latorie S Jones, Investigator	10/14/2010	10/14/2016
OF THIS PAGE	Lisa R Jennings, Investigator	X Latorie S Jones	
	Shelby N Marler, Generic Drug User Fee	Latorie S Jones Investigator	1
	Amendments (GDUFA)	Signed by: Latorie S. Jones -S	
	-		

FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

INSPECTIONAL OBSERVATIONS

PAGE 11 OF 22

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION			
DISTRICT ADDRESS AND PHONE NUMBER	DATE(S) OF INSPECTION		
4040 North Central Expressway, Suite 300	9/14/2016-10/14/2016*		
Dallas, TX 75204	FEI NUMBER		
(214) 253-5200 Fax: (214) 253-5314	3004483441		
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED	·		
James L. McCarley , CEO			
FIRM NAME	STREET ADDRESS		
Cantrell Drug Company	7321 Cantrell Rd		
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED		
Little Rock, AR 72207-4144	Outsourcing Facility		

a new bag for sampling to a 3^{rd} party vendor. The endotoxin result from the 3^{rd} party vendor was 28.68 EU/mL (limit (b) (4) . Your firm identified one of the components used in lot#165116 was Monosodium-L-Glutamate (MSG), lot # (b) (4) , which contained an endotoxin level >25EU/mL (limit (b) (4) on 7-18-16. The following products used MSG, lot # (b) (4) were released to the market:

Date Made	Product	Lot#	BUD
7/5/16	Cardioplegia Solution C ((b) (4), (b) (6)) Solution	165132	9/3/16
6/29/16	Cardiplegic Solution	164863	8/28/16
6/27/16	Cardioplegia Physiologic	164740	8/11/16
6/27/16	Cardioplegia Warm Induction	164738	8/11/16
6/10/16	Cardioplegia Solution C ((b) (4), (b) (6)) Solution	164169	8/9/16

Lastly, your firm does not perform endotoxin testing on all finished products.

OBSERVATION 5

There is no written testing program designed to assess the stability characteristics of drug products.

	EMPLOYEE(S) SIGNATURE		DATE ISSUED
SEE REVERSE	Latorie S Jones, Investigator	10/14/2016	10/14/2016
OF THIS PAGE	Lisa R Jennings, Investigator	X Latorie S Jones	
	Shelby N Marler, Generic Drug User Fee Amendments (GDUFA)	Latorie S Jones Investigator Signed by: Latorie S. Jones -S	

FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLET

INSPECTIONAL OBSERVATIONS

PAGE 12 OF 22

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION			
DISTRICT ADDRESS AND PHONE NUMBER	DATE(S) OF INSPECTION		
4040 North Central Expressway, Suite 300	9/14/2016-10/14/2016*		
Dallas, TX 75204	FEINUMBER		
(214)253-5200 Fax: (214)253-5314	3004483441		
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED	•		
James L. McCarley , CEO			
FIRM NAME	STREET ADDRESS		
Cantrell Drug Company	7321 Cantrell Rd		
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED		
Little Rock, AR 72207-4144	Outsourcing Facility		

Specifically, your firm does not have stability data to support the BUD assigned for all products purporting to be sterile produced by your firm. The following products on the drug shortage list produced by your firm do not have stability studies:

- 1. Droperidol 2.5mg/mL injection- 2mL vial, BUD 90 days
- 2. Potassium Acetate 4mEq/mL injection-50mL vial, BUD 90 days
- 3. Dexamethasone Sodium Phosphate 10mg/mL injection-1mL vial, BUD 90 days

This is repeat observation from the last FDA inspection conducted 10/15/13-11/4/13.

OBSERVATION 6

Testing and release of drug product for distribution do not include appropriate laboratory determination of satisfactory conformance to the identity and strength of each active ingredient prior to release.

Specifically,

1. Your firm's policy and procedure 7.390, revision 4, effective 11-9-15, states (b) (4)

Your firm did not perform potency testing for the following (b) (4):

Product	Lot#	Quantity
Oxytocin 30 USP units added to 0.9%NaCl-500mL bags	9056	(b) (4)
Heparin Sodium 10 USP units/mL in 0.9% NaCl 3 mL in 10 mL BD syringe	9007	

	EMPLOYEE(S) SIGNATURE		DATE ISSUED
SEE REVERSE	Latorie S Jones, Investigator	10/14/2016	10/14/2016
OF THIS PAGE	Lisa R Jennings, Investigator X	Latorie S Jones	
		e S Jones tigator	
4		d by: Latorie S. Jones -S	

FORM FDA 483 (09/08)

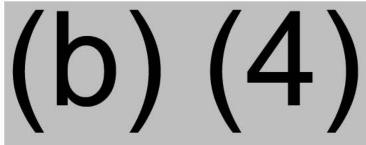
PREVIOUS EDITION OBSOLET

INSPECTIONAL OBSERVATIONS

PAGE 13 OF 22

DEPARTMENT OF I FOOD AND	HEALTH AND DEPOSITE OF THE PROPERTY OF THE PRO			
DISTRICT ADDRESS AND PHONE NUMBER		DATE(S) OF INSPECTION		The state of the s
4040 North Central Expressway, Suite 3	300	9/14/2016-10/	14/2016*	
Dallas, TX 75204		FEI NUMBER	- **	
(214)253-5200 Fax: (214)253-5314		3004483441		
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED				
James L. McCarley , CEO				
FIRM NAME	STREET AD	DRESS		
Cantrell Drug Company	Cantrell Drug Company 7321 Cantrell Rd			
CITY, STATE, ZIP CODE, COUNTRY TYPE ESTABLISHMENT INSPECTED				
Little Rock, AR 72207-4144 Outsourcing Facility				
preserved with 0.9% Benzyl Alcohol				
Heparin Sodium 4,000 USP units added to 0.9% NaCl- 1,000mL bags			8946	(b) (4)
Amiodarone 450mg added to 5% Dextrose-250mL bags		6270		
Methacholine 0.125mg/mL-6mL syringe		168338	-	

Your firm does not visually inspect all products prior to release. Your firm performs a
 (b) (4)



Note: Your firm has filled (b) (4)

SEE REVERSE OF THIS PAGE EMPLOYEE(S) SIGNATURE

Latorie S Jones, Investigator Lisa R Jennings, Investigator Shelby N Marler, Generic Drug User Fee

Amendments (GDUFA)

10/14

DATE ISSUED 10/14/2016

Latorie S Jones
Latorie S Jones
Investigator
Signed by: Latorie S. Jones -S

INSPECTIONAL OBSERVATIONS

FORM FDA 483 (09/08) PAGES PREVIOUS EDITION OBSOLETE

PAGE 14 OF 22

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION DISTRICT ADDRESS AND PHONE NUMBER 4040 North Central Expressway, Suite 300 9/14/2016-10/14/2016* Dallas, TX 75204 3004483441 (214) 253-5200 Fax: (214) 253-5314 NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED James L. McCarley , CEO FIRM NAME STREET ADDRESS 7321 Cantrell Rd Cantrell Drug Company CITY, STATE, ZIP CODE, COUNTRY TYPE ESTABLISHMENT INSPECTED Little Rock, AR 72207-4144 Outsourcing Facility **OBSERVATION 7**

Aseptic processing areas are deficient regarding the system for monitoring environmental conditions.

Specifically,

1. Your firm documented 1 CFU for a plate that was observed as too numerous to count (TNTC) during the plate reading of the (b) (4) surface environmental sample taken (b) (4)on 9-12-16. The following products were produced on 9-12-16 and released to the market:

Product Name	Lot#	Units Processed	Quality Release Date	Units Shipped
Cardioplegia 4:1-100mL bags	167961	(b) (4)	9-13-16	(b) (4)
Ephedrine Sulfate 10mg/mL-5mL syringes	168006		9-16-16	

2. On 9/16/2016, I observed Glove Fingertip Sampling during Personnel Monitoring, which consisted of the sterile compounding technician (b) (4) (b) (4) . This Glove Fingertip Sampling method is inadequate in that (b) (4) does not represent an accurate representation of the (b)(4)

	EMPLOYEE(S) SIGNATURE	06	DATE ISSUED
	Latorie S Jones, Investigator Lisa R Jennings, Investigator	X Latorie S Jones	10/14/2016
9	Shelby N Marler, Generic Drug User Fee Amendments (GDUFA)	Latorie S Jones Investigator Signed by: Latorie S. Jones -S	

FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

INSPECTIONAL OBSERVATIONS

PAGE 15 OF 22

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION			
DISTRICT ADDRESS AND PHONE NUMBER	DATE(S) OF INSPECTION		
4040 North Central Expressway, Suite 300	9/14/2016-10/14/2016*		
Dallas, TX 75204 (214)253-5200 Fax:(214)253-5314	3004483441		
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED	·		
James L. McCarley , CEO			
FIRM NAME	STREET ADDRESS		
Cantrell Drug Company	7321 Cantrell Rd		
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED		
Little Rock, AR 72207-4144 Outsourcing Facility			

3. During this inspection, I reviewed your firm's performance qualification/validation from September 2014 for incubator number (b) (4) located in the quality laboratory. This incubator is used to incubate environmental fungal samples. Documents reviewed showed that the company your firm hired to conduct the validation failed the equipment and wrote "Due to the recovered results the unit was found to be unable to maintain Temperatures within the acceptance criteria and is considered unreliable to maintain desired temperatures. The recommendation was given that the unit be removed from service and replaced with a more suitable unit." This document is signed by the Director of Quality Assurance. In addition, in the last 3 months the incubator was recorded to have a (b) (4) low temperature below the lower limit of (b) (4) °C eleven (11) times and above the upper limit of (b) (4) °C five (5) times. This incubator was observed to still be in use as of 10/6/2016.

OBSERVATION 8

Aseptic processing areas are deficient regarding air supply that is filtered through high-efficiency particulate air filters under positive pressure.

Specifically,

1. The ISO 8 Ante Room (b) (4) separating the ISO 7 Buffer Room (b) (4) (positive pressure) from the ISO 8 Labeling Area lacked HEPA filtration from January 2015 to July 2016; the ISO 7 Buffer Room (b) (4) (negative pressure) is connected to ISO 7 Buffer Room (b) (4). Your firm's President stated this was an oversight in design that was not corrected until July 2016.

Your ISO 8 Ante Rooms (b) (4) leading into ISO 7 Buffer Room (b) (4) did not meet your (b) (4) minimum pressure differential and was observed to be 0.01"w.c. during your (b) (4)

	EMPLOYEE(S) SIGNATURE		DATE ISSUED
SEE REVERSE	Latorie S Jones, Investigator	10/14/2016	10/14/2016
OF THIS PAGE	Lisa R Jennings, Investigator X Latorie 5 Jones		
	Shelby N Marler, Generic Drug User Fee Latore Sloves Investigator		
Q.	Amendments (GDUFA) Squeed by: Latorie S. Jones	5	C. St.

FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETI

INSPECTIONAL OBSERVATIONS

PAGE 16 OF 22

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION			
DISTRICT ADDRESS AND PHONE NUMBER	DATE(S) OF INSPECTION		
4040 North Central Expressway, Suite 300	9/14/2016-10/14/2016*		
Dallas, TX 75204	FEI NUMBER		
(214)253-5200 Fax: (214)253-5314	3004483441		
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED	·		
James L. McCarley , CEO			
FIRM NAME	STREET ADDRESS		
Cantrell Drug Company	7321 Cantrell Rd		
Y, STATE, ZIP CODE, COUNTRY TYPE ESTABLISHMENT INSPECTED			
Little Rock, AR 72207-4144	Outsourcing Facility		

room certification by (b) (4) in (b) (4) Your firm relies on (b) (4) of pressure differentials. The (b) (4) is(b) (4)

(b) (4) if a room is not within minimum pressure guidelines (b) (4)

(b) (4) Furthermore, your firm does not perform periodical review of the monitoring data to ensure cascading pressure differentials are maintained when drugs purporting to be sterile are produced.

Your firm has produced approximately (b) (4) units from December 2014 to September 2016. No evaluation to product impact has been assessed to date.

2. Your firm failed to allow the (b) (4)

(b) (4) [serial no. (b) (4)] to maintain room pressure changes after being advised by your 3rd party room and device certification vendor in (b) (4)

(b) (4) . The aforementioned (b) (4) are utilized to produce Oxytocin and Cefazolin in ISO 7 Room (b) (4) which opens into ISO 7 Buffer Room (b) (4) where non-beta lactam products are produced.

OBSERVATION 9

The building lacks adequate space for the orderly placement of equipment and materials to prevent mixups between different components, drug product containers, labeling, in-process materials and drug products and to prevent contamination.

Specifically, on 9/20/2016, I observed racks of labeled and unlabeled totes in Cleanroom (b) (4) containing Intermediate drug products, saline bags and the finished drug products, "Fentanyl Citrate 10mcg/mL in 0.9% Sodium Chloride 100mL Inj Bag", Lot 9064. For example:

SEE REVERSE OF THIS PAGE Lisa R Jennings, Investigator Shelby N Marler, Generic Drug User Fee Amendments (GDUFA) Latorie S Jones X Latorie S Jones Listorie S Jones Syncity : Latorie S Jones - S		EMPLOYEE(S) SIGNATURE		DATE ISSUED
Shelby N Marler, Generic Drug User Fee	SEE REVERSE	Latorie S Jones, Investigator	/14/2016	10/14/2016
文文の中のADDITION TO ADDITION TO ADDITION TO A SECOND	OF THIS PAGE	Lisa R Jennings, Investigator X Latorie S Jones		
Amendments (GDUFA) Squeed by: Latorie 5. Jones -5		大大型の大型の大型 Transport Tr		
	2	Amendments (GDUFA) Squed by: Latorie S. Jones - S		

FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETI

INSPECTIONAL OBSERVATIONS

PAGE 17 OF 22

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION				
DISTRICT ADDRESS AND PHONE NUMBER	DATE(S) OF INSPECTION			
4040 North Central Expressway, Suite 300	9/14/2016-10/14/2016*			
Dallas, TX 75204	FEI NUMBER			
(214) 253-5200 Fax: (214) 253-5314	3004483441			
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED				
James L. McCarley , CEO				
FIRM NAME	STREET ADDRESS			
Cantrell Drug Company	7321 Cantrell Rd			
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED			
Little Rock, AR 72207-4144	Outsourcing Facility			

- 1. Totes labeled as the finished drug product, "Fentanyl Citrate 10mcg/mL in 0.9% Sodium Chloride 100mL Inj Bag", Lot 9064, contain bags labeled as the finished drug product, "Fentanyl Citrate 10mcg/mL in 0.9% Sodium Chloride 100mL Inj Bag", Lot 9064. Your firm's Staff Pharmacist and PIC stated the bags did not contain the finished drug product, "Fentanyl Citrate 10mcg/mL in 0.9% Sodium Chloride 100mL Inj Bag", Lot 9064; but contained the (b) (4) drug (b) (4)

 However, the Staff Pharmacist and PIC stated they did not know the concentration of (b) (4)
 - a. The batch record revealed the (b) (4) is Fentanyl Citrate with a concentration of (b) (4)
- 2. Unlabeled totes contain (b) (4)0.9% Sodium Chloride, Lot (b) (4), bags without their outer sleeves. These bags are used in the compounding process of the finished drug product, "Fentanyl Citrate 10mcg/mL in 0.9% Sodium Chloride 100mL Inj Bag", Lot 9064.

Totes labeled as the finished drug product, "Fentanyl Citrate 10mcg/mL in 0.9% Sodium Chloride 100mL Inj Bag", Lot 9064, contain (b) (4) 0.9% Sodium Chloride, Lot (b) (4), bags without their outer sleeves. Your firm's Staff Pharmacist and PIC stated those bags are the finished drug product, "Fentanyl Citrate 10mcg/mL in 0.9% Sodium Chloride 100mL Inj Bag", Lot 9064, but the bags are not labeled as the finished drug product until they leave the cleanroom.

OBSERVATION 10

There is a failure to thoroughly review any unexplained discrepancy whether or not the batch has been already distributed.

Specifically, your firm's Internal Finding Records (IFRs), used to document out-of-specification results for personnel and environmental monitoring samples, potency failures, sterility failures, and endotoxin failures, do not require investigations into issues. 19 out of 19 IFRs reviewed during this inspection revealed your firm does not fully conduct and document investigations. SOP 7.220, "Documentation of

Shelby N Marler, Generic Drug User Fee Lators Stones		EMPLOYEE(S) SIGNATURE		DATE ISSUED
Shelby N Marler, Generic Drug User Fee	SEE REVERSE	Latorie S Jones, Investigator	10/14/2016	10/14/2016
Control Cont	OF THIS PAGE		X Latorie S Jones	
	THE STREET STREET	Shelby N Marler, Generic Drug User Fee	F. C1872-7-5-7-00-777	
TO THE CONTROL OF A CONTROL OF THE C	C).	Amendments (GDUFA)		

FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

INSPECTIONAL OBSERVATIONS

PAGE 18 OF 22

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION DISTRICT ADDRESS AND PHONE NUMBER 4040 North Central Expressway, Suite 300 Dallas, TX 75204 (214) 253-5200 Fax: (214) 253-5314 NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED James L. McCarley , CEO FIRM NAME Cantrell Drug Company TABLE TO STREET ADDRESS 7321 Cantrell Rd

TYPE ESTABLISHMENT INSPECTED

Outsourcing Facility

Internal Findings", Revision 2, Effective Date 7/2/2015, does not include the requirement of an investigation of failing testing results.

Date of Occurrence	Product	Lot Number	Issue	Product Disposition	IFR Number
9/15/2016	Calcium Chloride 20mg/mL in 0.9% Sodium Chloride	168032	EM Failure	Open	5296
9/12/2016	Fentanyl Citrate 2mcg/mL and Bupivacaine HCl 0.125% in 0.9% Sodium Chloride	9029	EM Failure	IFR Open	
9/12/2016	Cardioplegia Solution 4:1	167961	EM Failure	Released	5201
9/10/2016	Hydromorphone HCl 1mg/mL in 0.9% Sodium Chloride	9016	EM Failure	IFR Open	
7/29/2016	Trypan Blue Concentrate	166258	Potency Failure	Destroyed	5096
6/24/2016	Hydromorphone HCl 1mg/mL in 0.9% Sodium Chloride 30mL (b) (4) Vial	163941	BUD Extended	Released	4909
6/21/2016	Magnesium Sulfate 6g added to 0.9% Sodium Chloride 100mL Bag	164289	EM Failure	Released	4902
0/21/2010	Hydromorphone HCl 1mg/mL in 0.9% Sodium Chloride 30mL (b) (4) Vial	163941	Liviraliue	Released	4902

	EMPLOYEE(S) SIGNATURE		DATE ISSUED
SEE REVERSE	Latorie S Jones, Investigator	10/14/2016	10/14/2016
OF THIS PAGE	Lisa R Jennings, Investigator X Latorie S Jones		
	Shelby N Marler, Generic Drug User Fee		
	Amendments (GDUFA) Squeed by: Latorie S. Jones - S	<u></u>	

FORM FDA 483 (09/08)

CITY, STATE, ZIP CODE, COUNTRY

Little Rock, AR 72207-4144

PREVIOUS EDITION OBSOLETE

INSPECTIONAL OBSERVATIONS

PAGE 19 OF 22

DEPARTMENT OF HEALTH AND HUMAN SERVICES

FOOD AND DRUG ADMINISTRATION

DISTRICT ADDRESS AND PHONE NUMBER

4040 North Central Expressway, Suite 300

Dallas, TX 75204 (214)253-5200 Fax: (214)253-5314

9/14/2016-10/14/2016*

FEI NUMBER

3004483441

NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED

James L. McCarley , CEO

FIRM NAME STREET ADDRESS

Cantrell Drug Company 7321 Cantrell Rd

CITY, STATE, ZIP CODE, COUNTRY TYPE ESTABLISHMENT INSPECTED

Little Rock, AR 72207-4144 Outsourcing Facility

6/15/2016	Betamethasone Sodium Phosphate 2.4mg/mL 5mL vial	163862	Potency Failure	Destroyed	4890
6/15/2016	Betamethasone Sodium Phosphate 6mg/mL 1mL syringe	164175	Potency Failure	Destroyed	4891
5/23/2016	Sodium Citrate 30% in Sterile Water for Injection	163006	Sterility Inconclusive	Released	4 <mark>8</mark> 54
5/9/2016	Succinylcholine 20mg/mL Injection	162585	PM Failure	Released	4760
5/9/2016	Cefazolin Sodium 3g added to 0.9% Sodium Chloride 100mL Bag	8429	Leaking Bag	Released	4684
3/14 – 31/2016	(b) (4) Cleaning for Rooms (b) (4) not performed from 3/14-31/2016	(b)(4 Lots	The (b) (4) cleaning was not completed in Rooms (b) (4) from 3/14 – 31/2016	No investigations performed or IFRs created for the ⁽⁰⁾⁴ lots.	4570
3/9/2016	Promethazine 6.25mg/mL Sub formula	160319	Incorrect Formula Made	Destroyed	4387
1/27/2016	Hydromorphone 0.2mg/mL 30mL Barrel	158511	Potency Failure	Destroyed	4186
1/23/2016	ITs Rx (b) (4), (b) (6)	158333, 158331	Endotoxin Failure	Destroyed	4161
1/29/2016	Fentanyl Citrate 25mcg/mL in 5% Dextrose – 2mL Syringe	157929	Sterility Inconclusive	Released	4312
1/21/2016	Fentanyl Citrate 25mcg/mL in 5% Dextrose – 2mL Syringe		Sterility Inconclusive	Released	4310

SEE	REV	ERSE
OF T	HIS	PAGE

EMPLOYEE(S) SIGNATURE

Amendments (GDUFA)

Latorie S Jones, Investigator Lisa R Jennings, Investigator Shelby N Marler, Generic Drug User Fee

Latorie S Jones
Latorie S Jones
Investigator
Signed by: Latorie S. Jones -S

DATE ISSUED 10/14/2016

Latorie 5 Jones 5 Jones

FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

INSPECTIONAL OBSERVATIONS

PAGE 20 OF 22

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION				
DISTRICT ADDRESS AND PHONE NUMBER	DATE(S) O	OF INSPECTION	Ű.	
4040 North Central Expressway, Sui	te 300 9/14	9/14/2016-10/14/2016*		
Dallas, TX 75204		FEI NUMBER		
(214)253-5200 Fax: (214)253-5314	3004	3004483441		
(221/200 0200 23111 (221/200 0021				
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED	Ľ.			
James L. McCarley , CEO				
FIRM NAME	STREET ADDRESS			
Cantrell Drug Company	7321 Cantrell	Rd		
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECT	TED	7.0	
Little Rock, AR 72207-4144	Outsourcing F	acility		
1/20/2016 Fentanyl Citrate 25mcg/mL in 5% Dextrose – 2mL Syringe	EM Failure	Unknown	4182	

OBSERVATION 11

The labels of your outsourcing facility's drug products are deficient.

The labels of your outsourcing facility's drug products do not include information required by section 503B(a)(10)(A). Specifically, the following information is not found on your drug product labels:

- The statement "This is a compounded drug."
 Example(s) of drug product labels that do not contain this information:
 - Fentanyl Citrate 2 mcg/mL and Ropicacaine HCl 0.1% in 0.9% Sodium Chloride 100 mL bag
 - Heparin Sodium 25,000 units added to 5% Dextrose 250 mL bag
 - Calcium Chloride 20 mg/mL in 0.9% Sodium Chloride 500 mL bag
 - Glycopyrrolate 0.2 mg/1 mL Injection Solution 1 mL
 - Heparin Sodium 4,000 units added to 0.9% Sodium Chloride 1000 mL bag
 - Cardioplegia Solution 52 mL bag
 - Heparin Sodium 1,000 units added to 0.9% Sodium Chloride 1000 mL bag
 - Hydromorphone HCl 30 mg/30 mL in 0.9% Sodium Chloride
 - Del Nido Cardioplegia 1,092.5 mL
 - Heparin Sodium 5,000 units added to 0.9% Sodium Chloride 1000 mL bag
 - Morphine Sulfate 1 mg/mL in 5% Dextrose 100 mL bag

	EMPLOYEE(S) SIGNATURE		DATE ISSUED
	Latorie S Jones, Investigator	10/14/2016	10/14/2016
OF THIS PAGE		Latorie S Jones	
	inv	orie S Jones estigator ned by: Latorie S. Jones -S	

FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETI

INSPECTIONAL OBSERVATIONS

PAGE 21 OF 22

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION			
DISTRICT ADDRESS AND PHONE NUMBER	DATE(S) OF INSPECTION		
4040 North Central Expressway, Suite 300	9/14/2016-10/14/2016*		
Dallas, TX 75204	FEI NUMBER		
(214)253-5200 Fax: (214)253-5314	3004483441		
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED			
James L. McCarley , CEO			
FIRM NAME	STREET ADDRESS		
Cantrell Drug Company	7321 Cantrell Rd		
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED		
Little Rock, AR 72207-4144	Outsourcing Facility		

OBSERVATION 12

Deviations from written production and process control procedures are not recorded and justified.

Specifically, on 10/12/16 we observed Glycopyrrolate 1mg/5mL (0.2mg/mL) syringes, lot 9174, were stored in a (b) (4) touching a portable space heater reading between 91-92°F during the labeling process. Your batch record and labeling both states the product should be stored at room temperature. No impact assessment has been preformed to determine the effect on the identity, quality, strength, and purity of this product.

*DATES OF INSPECTION

9/14/2016(Wed), 9/15/2016(Thu), 9/16/2016(Fri), 9/19/2016(Mon), 9/20/2016(Tue), 9/21/2016(Wed), 9/22/2016(Thu), 9/23/2016(Fri), 10/04/2016(Tue), 10/05/2016(Wed), 10/06/2016(Thu), 10/07/2016(Fri), 10/11/2016(Tue), 10/12/2016(Wed), 10/13/2016(Thu), 10/14/2016(Fri))

X Shelby N Marler

Shelby N Marler Generic Drug User Fee Amendments (GDUFA) Signed by: Shelby Marler - S

SEE REVERSE OF THIS PAGE EMPLOYEE(S) SIGNATURE

Latorie S Jones, Investigator Lisa R Jennings, Investigator Shelby N Marler, Generic Drug User Fee

Amendments (GDUFA)

X Latorie S Jones

10/14/2016

INSPECTIONAL OBSERVATIONS

FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

PAGE 22 OF 22