PERSON INSPECTION /15/2017-9/26/2017* NUMBER 013030904 Pefree Highway Suite 107
ol3030904 efree Highway Suite 107
arecieu
g Facility
on of your facility. They are inspectional ince. If you have an objection regarding an o an observation, you may discuss the objection or o FDA at the address above. If you have any
ia

Specifically,

are not established, written and followed.

A. Your firm failed to perform and document an investigation into a media fill failure and also determine the root cause of the contaminant. Your firm's first media fill, lot number (b) (4), (b) (6) performed on 06/06/2017 by your Operator, Pharmacy Technician (b) (6), failed. One (1) vial was observed to have growth on 06/12/2017. Your firm identified the contaminant as *Bacillus licheniformis*. Your written procedure titled, "S-09 Media Fill Trial" states that (b) (4)

." Furthermore, you produced Ascorbic Acid, lot number S-60008 (50 ml Amber Vial) on 6/22/2017. You distributed product to a customer on 07/07/2017 and 08/30/2017. This initial media fill failure was repeated multiple times, with the deficiencies listed below.

1. When your firm had Operator, Pharmacy Technician (b) (6), repeat his media fill as lot number (b) (4), (b) (6)
(b) (4) on 06/23/2017, he did not perform a repeat of a full batch size, which consists of filling (b) (4)
(b) (4)

He repeated only a portion of a batch size in (b) (4)

Your written procedure titled, "S-09 Media Fill Trial" does not specify how failed media fill trials are to be repeated.

2. Your Operator, Pharmacy Technician (b) (6) performed a media fill as lot number(b) (4) on 08/30/2017, which had failing results. For media fill lot number(b) (4) , your firm documented that

SEE REVERSE OF THIS PAGE	Stephanie A Slater, 1	Investigator	Shepherio A Bater residente Signed II; Becherio A Baser & Date Signed (6-29-2017 10 00512	DATE ISSUED 9/26/2017
FORM FDA 483 (09/08)	PREVIOUS EDITION ORSOLETE	INSPECTIONAL OBSERVAT	IONS	PAGE 1 OF 15 PAGES

		CALTH AND HUMAN SERVIORUG ADMINISTRATION	CES			
DISTRICT ADDRESS AND PHO		DATE(S) OF II		ALIES .		
19701 Fairch:		8/15/2	2017-9/26/2017*			
Irvine, CA 9	92612-2445 90 Fax: (949) 608-4417		30904			
(949)608-2900	U EAX: (343) 000-4411					
NAME AND TITLE OF INDIVIDU						
Nancy J. Cost	tlow, PharmD, RPh, Director	STREET ADDRESS				
	ceuticals, LLC		a Highway Suite	107		
CITY, STATE, ZIP CODE, COUN						
Phoenix, AZ	nix, AZ 85085-0101 Outsourcing Facility					
Your firm and sent incubation B. Your contract smoke studies we resting Tour, Property accurately accurately 2. The smappears series of the contract of the c	w visualization (i.e. "smoke studies" y represent your firm's aseptic mannoke study videos indicate airflow is slow in the critical work surface. (b) (4) and (b) (4) sterilization of toxins from Vials, Lids, and Rubbe	fill vial that showed group. This vial was not allow tudies on 05/22/2017, wittled, "Atlas Pharmaceros of the smoke studies") was not performed undiffecturing procedures. In some unidirectional. The not unidirection will be not unidirection titled, "VP or Stoppers" and "VP08-	with on Day was repowed to complete a furthich were captured outleals Pharmacy Cleperformed on 05/22/2 der dynamic conditions apparent turbule 16-Validation Protoco	moved, plated, all (b) (d) day on video. These anroom Suite 2017, which ons that		
	rility of Tubing" are deficient in that /P16 and VP08 validation reports or		of endotoxin and	not £(b) (4)		
2. There is no apparent determination of "cold spots" by (b) (4) n your (b) (4) (b) (4) chamber.						
	ime/expiration dating data of steriliz	zed items are not indicate	ed in your VP16 and	VP08 validation		
4.(b) (4) cycles parameters used by your firm to (b) (4) glassware are not documented in your glassware (b) (4) batch records, including those that were used to sterilize items used during commercial production of Ascorbic Acid lot number S-60008 on 6/22/2017.						
SEE REVERSE OF THIS PAGE	Stephanie A Slater, Inves	tigator	Shapharin A Shile Investigate Biggs 6 pr. Shapharin A. Shiles -5 Dille Sayrine 08-28-3017 10:00:53	9/26/2017		
FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLETE	INSPECTIONAL OBSERVAT	TIONS	PAGE 2 OF 15 PAGES		

	H AND HUMAN SERVICES ADMINISTRATION	
DISTRICT ADDRESS AND PHONE NUMBER 19701 Fairchild Irvine, CA 92612-2445 (949)608-2900 Fax: (949)608-4417	8/15/2017-9/26/20 FEINUMBER 3013030904	17*
Name and Title OF INDIVIDUAL TO WHOM REPORT ISSUED Nancy J. Costlow, PharmD, RPh, Director		
Atlas Pharmaceuticals, LLC	etreet ADDRESS 711 E. Carefree Highway Su	ite 107
City, STATE ZP CODE COUNTRY Phoenix, AZ 85085-0101	TYPEESTABLISHMENT REPECTED Outsourcing Facility	

- D. Your media fill qualification program specified in written procedure titled, "S-09 Media Fill Trial" and protocol titled, "Media Fill Procedure", is deficient. Examples included, but were not limited to the items listed below.
 - 1. Your firm does not document how Operators conduct media fills or process simulations under worstcase conditions, including simulations of environmental and personnel monitoring.
 - 2. Your Media Fill Batch Record is deficient in that it does not document how many vials were filled by each Operator during the media fills, if any vials have been rejected, and the final quantity of vials that have been incubated.

 - 4. Your firm used amber colored vials for media fills on 06/06/2017, 06/12/2017, 06/15/2017, 06/23/2017, 08/30/2017, 08/31/2017, 09/05/2017, 09/06/2017, and 09/07/2017.
- E. On 09/19/2017, I observed Operator, Pharmacy Technician (b) (6) transfer materials for Ascorbic Acid 500mg/mL Injection in 50mL production from an ISO 8 classified area, (ISO 8 Mixing Room and ISO 8 Storage Room) into a purported cleaner ISO 7 classified area. Materials included, but are not limited to, the items that are listed below.
 - glassware such as flasks and graduated cylinder
 - (b) (4) packets of tubing, forceps, caps, and stoppers
 - Ascorbic Acid bulk solution in two (2) large beakers

SEE REVERSE OF THIS PAGE		Investigator	Shephinis A Salau Investigate Salau Salau Spring Salau Date Salau Ob-29-2017 10:00:52	9/26/2017
FORM FDA 483 (09/05)	PREVIOUS EDITION DISSOLETE	INSPECTIONAL OBSERVATION	S	PAGE 3 OF 15 PAGES

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION DISTRICT ADDRESS AND PHONE NUMBER 19701 Fairchild 8/15/2017-9/26/2017* Irvine, CA 92612-2445 3013030904 (949)608-2900 Fax: (949)608-4417 NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED Nancy J. Costlow, PharmD, RPh, Director STREET ADDRESS FIRM NAME 711 E. Carefree Highway Suite 107 Atlas Pharmaceuticals, LLC CITY, STATE, ZIP CODE, COUNTRY TYPE ESTABLISHMENT INSPECTED Phoenix, AZ 85085-0101 Outsourcing Facility

I observed Operator (b) (6) gather these items and place them on a cart that was located in the ISO 8 Mixing Room. This cart was transported to the pass-through chamber that leads into the ISO 7 Clean Room Operator (b) (6) placed the items into the pass-through chamber without decontaminating the items before placing them inside of the pass-through.

In addition, I observed that Operator (b) (6) removed the items from the pass-through chamber and placed them directly on shelves and/or on the cart located within the ISO 7 Clean Room (b) (4) without decontaminating the items.

OBSERVATION 2

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

Specifically,

- A. There are deficiencies in environmental monitoring, specifically, viable air, surface, and personnel monitoring records. Examples include, but are not limited to, the items listed below.
 - 1. Your "Cleanroom Media Samples" log that is used by your firm to document environmental monitoring results for viable air samples and surface samples does not indicate pass/fail specifications.
 - 2. There are no results for viable air and surface monitoring for the date of production of Ascorbic Acid 500mg/mL Injection in 50mL, lot S-60008 on 06/22/2017.
 - 3. There are multiple instances of poor documentation practices, such as late entries and not indicating the number of days incubated at C observed on the "Cleanroom Media Samples" log and late entries on the "Routine Fingertip Sampling Form".
 - 4. The(b) (4) fingertip and (b) (4) (b) (4) pody sampling forms appear to have missing dates for both sterile production Operators, specifically on 06/06/2017 and on 06/22/2017, when media fill trials and sterile drug production occurred.

SEE REVERSE OF THIS PAGE		Investigator	Displace A Sales Investigator A Sales - 4. Sales - 4. Date Signed: 09-76-2017 10 00:12 Z	9/26/2017
ECLIPAS FILM 483 (DOMS)	PREVIOUS EDITION CASOLETE	INSPECTIONAL OBSERVATIO	INS	PAGE 4 OF 15 PAGES

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION DATE(S) OF INSPECTION DISTRICT ADDRESS AND PHONE NUMBER 19701 Fairchild 8/15/2017-9/26/2017* Irvine, CA 92612-2445 3013030904 (949) 608-2900 Fax: (949) 608-4417 HAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED Nancy J. Costlow, PharmD, RPh, Director FIRM NAME STREET ADDRESS Atlas Pharmaceuticals, LLC 711 E. Carefree Highway Suite 107 TYPE ESTABLISHMENT INSPECTED CITY, STATE, ZIP CODE, COUNTRY Phoenix, AZ 85085-0101

- 5. (b) (4) (b) (4) body sampling is missing multiple weeks in July 2017.
- Your firm included an "Addendum" to state your employees forgot to enter data on 06/22/2017; however, the log sheets indicate a sampling occurred on 06/23/2017.

Outsourcing Facility

B. Your firm's BMS (building management system) is not adequate, because Alert and Alarm settings do not correspond with the established specifications in your written procedures. As such, excursions from specified parameters are not always identified.

Examples of parameters observed to be outside of specifications and the discrepancies between written procedures and BMS settings include, but are not limited to the items indicated in the tables below.

Applicable Written Procedures (Standard Operating Procedures, SOPs)

SOP Number	SOP Title	SOP Version	SOP Date
S-14	Environmental Monitoring of the Sterile Laboratory	2	06/05/2017
S-14	Environmental Monitoring of the Sterile Laboratory	3	07/14/2017
S-13	Sterile Environment and Processing Specifications	2	06/05/2017
Q-13	Monitoring Temperature Controlled Equipment	0	02/02/2017

June 2017 to July 2017; Procedure S-14 Version 2 Was Effective

Examples of Parameters Observed Outside Specifications

Date of	Facility Location/Description	SOP Established	BMS Reading of
Weekly		Specification; Low to	Value(s) Outside of
Report		High Action Limits	Specifications
16 to 22	(b) (4) - ISO 7 Clean Room (b) (4)	ISO Class 7 Rooms	(b) (4)%
June 2017	Humidity	(b) (4)%	
24 to 30 June 2017	(b) (4)- ISO 7 Clean Room (b) (4) Humidity	ISO Class 7 Rooms (b) (4)%	(b) (4)%
01 to 07	(b) (4)'- ISO 7 Clean Room (b) (4)	ISO Class 7 Rooms	(b) (4)°C

SEE REVERSE OF THIS PAGE	EMPLOYEE(S) SIGNATURE Stephanie A Slater,	Investigator	Shaphurin A Shife in Shreathgater Shreathgater Shreathgater Shife	9/26/2017
FORM FTIA 483 (09/08)	PREVIOUS EDITION ORSOLETE	INSPECTIONAL OBSERVATIONAL OBS	ONS	PAGE 5 OF 15 PAGE

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION

DISTRICT ADDRESS AND PHONE NUMBER

19701 Fairchild Irvine, CA 92612-2445

(949)608-2900 Fax: (949)608-4417

DATE(S) OF INSPECTION 8/15/2017-9/26/2017*

3013030904

NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED

Nancy J. Costlow, PharmD, RPh, Director

STREET ADORESS Atlas Pharmaceuticals, LLC 711 E. Carefree Highway Suite 107

CITY, STATE, ZIP CODE, COUNTRY TYPE ESTABLISHMENT INSPECTED

Phoenix, AZ 85085-0101 Outsourcing Facility

Facility Location/Description SOP Established **BMS** Reading of Date of Specification: Low to Value(s) Outside of Weekly **High Action Limits** Specifications Report June 2017 Temperature (b) (4) °F ((b) (4) °C) (b) (4)- ISO 7 Clean Room (b) (4) (b) (4)°C 08 to 15 ISO Class 7 Rooms June 2017 Temperature (b) (4) °F ((b) (4) C) (b) (4)- ISO 7 Clean Room (b) (4) ISO Class 7 Rooms (b) (4)°C 16 to 22 June 2017 Temperature (b) (4)°F (b) (4) °C) (b) (4) - ISO 7 Clean Room (b) (4) 24 to 30 ISO Class 7 Rooms (b) (4)°C June 2017 (b) (4)°F ((b) (4) °C) Temperature (b) (4) - ISO 7 Clean Room (b) (4) ISO Class 7 Rooms (b) (4)% 24 to 30 June 2017 Humidity (b) (4)% (b) (4)- ISO 7 Clean Room (b) (4) **ISO Class 7 Rooms** (b) (4)°C 01 to 07 June 2017 Temperature (b) (4)°F ((b) (4) C) (b) (4) - ISO 7 Clean Room (b) (4) 08 to 15 ISO Class 7 Rooms (b) (4)°C June 2017 (b) (4)°F ((b) (4) °C) Temperature (b) (4)- ISO 7 Clean Room(b) (4) (b) (4)°C 16 to 22 ISO Class 7 Rooms June 2017 Temperature (b) (4)°F ((b) (4) °C) 24 to 30 (b) (4)- ISO 7 Clean Room(b) (4) ISO Class 7 Rooms (b) (4)°C Temperature June 2017 (b) (4) °F ((b) (4) °C) (b) (4) -Incubator in Non-ISO Incubator temperatures (b) (4)-(b) (4)°C with 08 to 15 (b) (4) °C; however, neither incubator set at June 2017 Hallway (b)(4)-(b)(4)°C from (b) (4) media fill sample incubations require June 2017 (b) (4) °C incubation for days followed by(6)(4)-(b)(4)oC for days (b) (4) -Incubator (b) (4) in Non-ISO °C with Incubator temperatures (b) (4) 08 to 15 June 2017 Hallway (b) (4) °C; however, neither incubator set at (b) (4)°C from (b) (4) media fill sample incubations require June 2017 (b) (4)°C incubation for

SEE REVERSE OF THIS PAGE	Stephanie A Slater,	Investigator	Shopharine A States for intripular Express Oyr Stephanic A. States - S. Dain States of Ch-26-2017 10100.52	9/26/2017
FORM FDA 483 (09/88)	PREVIOUS EDITION OBSOLETE	INSPECTIONAL OBSERVAT	TIONS	PAGE 6 OF 15 PAGES

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION

DISTRICT ADDRESS AND PHONE NUMBER 19701 Fairchild

Irvine, CA 92612-2445

(949)608-2900 Fax: (949)608-4417

DATE(S) OF INSPECTION 8/15/2017-9/26/2017*

FEI NUMBER 3013030904

NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED

Nancy J. Costlow, PharmD, RPh, Director

STREET ADDRESS FIRM NAME Atlas Pharmaceuticals, LLC 711 E. Carefree Highway Suite 107 DITY, STATE, ZP CODE, COUNTRY TYPE ESTABLISHMENT INSPECTED

Phoenix, AZ 85085-0101 Outsourcing Facility

Date of Weekly Report	Facility Location/Description	SOP Established Specification; Low to High Action Limits	BMS Reading of Value(s) Outside of Specifications
		^{(b) (4)} lays followed by ^{(b) (4)} ^{(b) (4)} C for lays	
16 to 22 June 2017	(b) (4) -Incubator (b) (4) in Non-ISO Hallway	Incubator temperatures (b) (4)°C; however, media fill sample incubations require (b) (4)°C incubation for (b) (4) ays followed by (b) (4) C for lays	(b) (4) (b) (4)? with neither incubator set at (b) (4) °C
16 to 22 June 2017	(b) (4) -Incubator (b) (4) in Non-ISO Hallway	Incubator temperatures (b) (4) °C; however, media fill sample incubations require (b) (4) °C incubation for (b) (4) °C incubation for (c) (4) °C for days	(b) (4) °C with neither incubator set at (b) (4) °C
01 to 07 July 2017	(b) (4) ISO 7 Clean Room ^{(b) (4)} Humidity	ISO Class 7 Rooms (b) (4)%	(b) (4)%
01 to 07 July 2017	(b) (4)- ISO 7 Clean Room(b) (4) Temperature	ISO Class 7 Rooms (b) (4) °F ((b) (4) °C)	(b) (4) °C
01 to 07 July 2017	(b) (4)- ISO 7 Clean Room(b) (4) Humidity	ISO Class 7 Rooms (b) (4)%	(b) (4)%
01 to 07 July 2017	(b) (4)- ISO 7 Clean Room ^{(b) (4)} Temperature	(b) (4)'F (b) (4) °C)	(b) (4)°C
01 to 07 July 2017	(b) (4) -Incubator in Non-ISO Hallway	Incubator temperatures (b) (4)°C; however, media fill sample incubations require (b) (4)°C incubation for	(b) (4) °C with neither incubator set at (b) (4) °C from (b) (4) July 2017

SEE REVERSE OF THIS PAGE	EMPLOYEE(S) SIGNATURE Stephanie A Slater,	Investigator	Staphene A Date Investigate Byne By Sephene A State & Des Signed (8-78-2017 10 0652	9/26/2017
FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLETE	INSPECTIONAL OBSERVATIONAL OBS	ONS	PAGE 7 OF 15 PAGES

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION DISTRICT ADDRESS AND PHONE NUMBER DATE(S) OF INSPECTION 19701 Fairchild 8/15/2017-9/26/2017* FEI NUMBER Irvine, CA 92612-2445 3013030904 (949) 608-2900 Fax: (949) 608-4417 NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED Nancy J. Costlow, PharmD, RPh, Director STREET ADDRESS Atlas Pharmaceuticals, LLC 711 E. Carefree Highway Suite 107 CITY, STATE, ZIP CODE, COUNTRY TYPE ESTABLISHMENT INSPECTED Phoenix, AZ 85085-0101 Outsourcing Facility

Date of Weekly Report	Facility Location/Description	SOP Established Specification; Low to High Action Limits	BMS Reading of Value(s) Outside of Specifications
		(b)(4) lays followed by(b)(4) (c)(4) C for days	
01 to 07 July 2017	(b) (4) -Incubator in Non-ISO Hallway	Incubator temperatures (b) (4) °C; however, media fill sample incubations require (b) (4) °C incubation for (b) (4) °C for lays	(b) (4) °C with neither incubator set at (b) (4) °C from (b) (4) July 2017

Discrepancies Between BMS Settings and Written Procedures

SOP	Facility Location/Description	SOP Established	BMS Setting; Low to
Number		Specification; Low to	High Action Limits;
and Version		High Action Limits	Month in 2017
S-14; Version 2	(b) (4) - ISO 7 Clean Room (b) (4) Humidity	ISO Class 7 Rooms (b) (4)%	(b) (4)%; June 2017
S-14; Version 2	(b) (4)'- ISO 7 Clean Room (b) (4) Temperature	ISO Class 7 Rooms (b) (4) °F ((b) (4) °C)	(b) (4)°C; June 2017
S-14;	(b) (4) - ISO 7 Clean Room (b) (4)	ISO Class 7 Rooms	(b) (4)%; June 2017
Version 2	Humidity	(b) (4)%	
S-14;	(b) (4) - ISO 7 Clean Room (b) (4)	ISO Class 7 Rooms	(b) (4)°C; June 2017
Version 2	Temperature	(b) (4) °F ((b) (4) °C)	
Q-13; Version 0	(b) (4) -Incubator (b) (4) in Non-ISO Hallway	Incubator temperatures (b) (4) °C; however, media fill sample incubations require (b) (4) °C incubation for (b) (4) °C incubation for (b) (4) °C incubation for	(b) (4)°C; June 2017

SEE REVERSE OF THIS PAGE	EMPLOYEE(S) SIGNATURE Stephanie A Slater,	Investigator	Desphanie A State Produziolate Eliginal Sp. Statylarine A. Salter -3 Dess Staylare (IB-76-30) 1 10 (IS.52	9/26/2017
FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLETE	INSPECTIONAL OBSERVATIONAL OBS	ONS	PAGE 8 OF 15 PAGE

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION DATE(6) OF INSPECTION DISTRICT ADDRESS AND PHONE NUMBER 19701 Fairchild 8/15/2017-9/26/2017* FEI NUMBER Irvine, CA 92612-2445 3013030904 (949) 608-2900 Fax: (949) 608-4417 NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED Nancy J. Costlow, PharmD, RPh, Director FIRM NAME STREET ADDRESS Atlas Pharmaceuticals, LLC 711 E. Carefree Highway Suite 107 CITY, STATE, ZIP CODE, COUNTRY TYPE ESTABLISHMENT INSPECTED Phoenix, AZ 85085-0101 Outsourcing Facility

SOP Number and Version	Facility Location/Description	SOP Established Specification; Low to High Action Limits output for the control of the control	BMS Setting; Low to High Action Limits; Month in 2017
Q-13; Version 0	(b) (4) -Incubator in Non-ISO Hallway	Incubator temperatures (b) (4)°C; however, media fill sample incubations require (b) (4)°C incubation for (b) (4) ays followed by (b) (4) or incubation for (b) (4) ays followed by (c) (4) ays	(b) (4) °C; June 2017

July 2017; Procedure S-14 Versions 2 and 3 Were Effective

Examples of Parameters Observed Outside Specifications

Date of Weekly Report	Facility Location/Description	SOP Established Specification; Low to High Action Limits	BMS Reading of Value(s) Outside of Specifications
08 to 14 July 2017	Humidity	ISO Class 7 Rooms (b) (4)%	(b) (4)%
15 to 21 July 2017	Humidity	ISO Class 7 Rooms (b) (4)%	(b) (4)%
08 to 14 July 2017	Humidity	ISO Class 7 Rooms (b) (4)%	(b) (4)%
15 to 21 July 2017	(b) (4) - ISO 7 Clean Room (b) (4) Humidity	ISO Class 7 Rooms (b) (4)%	(b) (4)%

Discrepancies Between BMS Settings and Written Procedures

SEE REVERSE OF THIS PAGE	내가 보다 없어요? 국가를 하다면서가 되었습니다. 그러지는 그리지 않아 나가 다시아니다.	Investigator	Simpriorie A Batter threstopies Signed by Stagnates A Easter -B Date Expres CR-76-7077 10 00:52	9/26/2017
FORM FDA 483 (09/08)	PREVIOUS EDITION DBSOLETE	INSPECTIONAL OBSERVA	TIONS	PAGE 9 OF 15 PAGE

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION DISTRICT ADDRESS AND PHONE NUMBER 19701 Fairchild Irvine, CA 92612-2445 (949) 608-2900 Fax: (949) 608-4417 DATE(S) OF INSPECTION 8/15/2017-9/26/2017* FEINLINGER 3013030904

NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED

Nancy J. Costlow, PharmD, RPh, Director

FIRM NAME	STREET ADDRESS
Atlas Pharmaceuticals, LLC	711 E. Carefree Highway Suite 107
GITY, STATE, ZP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED
Phoenix, AZ 85085-0101	Outsourcing Facility

SOP Number and Version	Facility Location/Description	SOP Established Specification; Low to High Action Limits	BMS Setting; Low to High Action Limits; Month in 2017
S-14; Version 3	(b) (4) ISO 7 Clean Room (b) (4) Humidity	ISO Class 7 Rooms (b) (4)%	(b) (4)%; July 2017
S-14; Version 3	(b) (4) ISO 7 Clean Room (b) (4) Temperature	ISO Class 7 Rooms (b) (4)°F (b) (4) °C)	(b) (4)°C; July 2017
S-14; Version 3	(b) (4)- ISO 7 Clean Room (b) (4) Humidity	ISO Class 7 Rooms (b) (4)%	(b) (4)%; July 2017
S-14; Version 3	(b) (4) ISO 7 Clean Room (b) (4) Temperature	(b) (4)°F ((b) (4) °C)	(b) (4)°C; July 2017

C. Your firm does not have established records that your employees use to document and show that they actively monitor the BMS at specified times and frequencies. Your firm relies fully on the BMS and queries reports from the system.

OBSERVATION 3

There is a lack of written procedures describing in sufficient detail the methods, equipment and materials to be used for sanitation.

Specifically,

- A. Your firm's written procedure titled, "S-10 Sterile Lab Cleaning Version 1" and the firm's "Cleaning Log(s)" for the Non-Sterile Compounding (production) Room; ISO 8 Areas; and ISO 7 Areas are deficient. Deficiencies include, but are not limited to the items listed below.
 - 1. Specific details regarding your cleaning method are not included in procedure S-10. Examples include, but are not limited to: how a (b) (4) is performed; how cleaning agents are (b) (4); the specific

SEE REVERSE OF THIS PAGE		Investigator	Chipheron A States Vendagator X Sepred Sy Stephenon A States -3 Data Scient (S-26-2011 10-2652	DATE (6SUED) 9/26/2017
FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLETE	INSPECTIONAL OBSERVATIO	NS	PAGE 19 0# 11

DISTRICT ADDRESS AND PHO	DEPARTMENT OF HI	EALTH AND HUN DRUG ADMINISTRA	
19701 Fairch: Irvine, CA 93	RENUMBER ild	12.H	DATE(S) OF UNSPECTION 8/15/2017-9/26/2017* FEI MUMBER 3013030904
NAME AND TITLE OF INDIVIDU	LIOWHOWREPORTISSUED		
FIRM NAME	ceuticals, LLC	711 E.	Carefree Highway Suite 107
Phoenix, AZ	****		cing Facility
were clear cleaning B. Your firm per use. The study tit procedures that v C. The (b) (4)	aned; the lot number(s) and expiration as required per procedure S-10 was formed an inadequate disinfectant to ded, "2017 Cleaning Validation" pewere used during this study. Cleaner" used by the firm	on date(s) of cl not always pe esting effective rformed in Ma	om(s) and/or locations in the ISO 7 areas that leaning agents that were used; and (b) (4) rformed and/or documented. The energy study for each disinfectant for its intendity 2017, failed to specify facility cleaning cleaning agent and it is used to clean the ISO
	anding wan surfaces. I observed the	is practice on 0	8/17/2017 inside of Clean Room (6) (4)
Specifically, ther items listed below A. Training was performed her duthat the Quality A	ON 4 gaged in the manufacture, processing and experience required to perform a grant of the process of the proc	sing, packing erform their a ployee training nployee. Your ng cGMP and approved docu	and holding of a drug product lack the

FORM FDA 483 (09/08) PAGES

PREVIOUS EDITION OBSOLETE

INSPECTIONAL OBSERVATIONS

PAGE II OF 15

	DEPARTMENT OF HEAL FOOD AND DRU	TH AND HUMAN SERVE	TICES	
DISTRICT ADDRESS AND PHO	NE NUMBER	DATE(8) C	FINSPECTION	We term to the
19701 Fairch: Irvine, CA 93		8/15	/2017-9/26/2017*	
	0 Fax: (949) 608-4417	3013	030904	
NAME AND TITLE OF INDIVIOU				
FIRM NAME	tlow, PharmD, RPh, Director	STREET ADDRESS		
Atlas Pharma	ceuticals, LLC		ee Highway Suite	107
CITY, STATE, ZIP CODE, COUN		TYPE ESTABLISHMENT INSPECT		
Phoenix, AZ	85085-0101	Outsourcing F	acility	
However, as late	ted that Operators were trained by an exact as 08/25/2017, Operators who conduct ining was completed.		conduct (b) (4) ng did not have docun	testing. nentation to
drug products. Specifically, the Criteria for Steril any additional sta	of conformance to appropriate writted alert and action levels specified in your le Products" were established per the reatistical basis or scientific rationale. Provide in a lot fail visual inspection, products	written procedure commendation of y ocedure Q-17 states	titled, "Q-17 Testing a our consultant and not that (b) (4) . If (b) (4)	nd Release according to % of
specifications, s and drug product Specifically, Your firm does n In the ISO 8 Mix are used to adjust expiration dating	trols do not include the establishment and ards and test procedures designed to conform to appropriate standards not have an established written proceduring Room on 09/19/2017, I examined to the pH of drug product bulk solutions. There were examples of (b) (4), (b) tions that are prepared at the firm. Examined	re to define solution b) (4) Each solution had (4) (b) (4)	expiration dating. und(b) (4) different lengths assig expiration dates assig	ess materials by. solutions which ned for ned to different
SEE REVERSE OF THIS PAGE	EMPLOYEE(S) SIGNATURE Stephanie A Slater, Investi	gator	Beginnin A Elaise Investigator X Bigned Sy: Swappers A. State - 3 Dills Sacreet 15-25-2017 10:08:52	9/26/2017
FORM FDA 483 (09/08) PAGES	PREVIOUS EDITION OBSOLETE INS	SPECTIONAL OBSERVA	ATIONS	PAGE 12 OF 15

FOOD	OF HEALTH AND HUMAN SE AND DRUG ADMINISTRATION		
DISTRICT ADDRESS AND PHONE MUNBER		DATE(S) OF INSPECTION	
19701 Fairchild		15/2017-9/26/2017*	
Irvine, CA 92612-2445 (949)608-2900 Fax:(949)608-4417		3013030904	
Name and Title of INDIVIDUAL TOWNION REPORT ISSUED Nancy J. Costlow, PharmD, RPh, Dire	ctor		
Maney of coocien, indime, min, bile			
	STREET ADDRESS		
Atlas Pharmaceuticals, LLC	Charles and San San	Free Highway Suite 107	
FIRM NAME	Charles and San San		



OBSERVATION 7

Equipment and utensils are not cleaned, maintained and sanitized at appropriate intervals to prevent malfunctions and contamination that would alter the safety, identity, strength, quality or purity of the drug product.

Specifically,

A. Your firm's written procedure titled, "E-01(b) (4) Use, Cleaning and Maintenance" requires that maintenance and cleaning of the (b) (4) is to be performed (b) (4), (b) (4), (b) (4), (b) (4), and (b) (4). Your firm has no documentation to show that such maintenance and cleaning activities are performed per procedure E-01.

B. Your firm has a pH meter located in the ISO 8 Mixing Room. This pH meter is documented as calibrated (b) (4) however, your calibration log does not specify which pH reference standards are used or include calibration reading results.

OBSERVATION 8

SEE REVERSE OF THIS PAGE

Stephanie A Slater, Investigator

X Manufacture X Manufactur

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

INSPECTIONAL OBSERVATIONS

PAGE IJ OF IS

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION				
DISTRICT ADDRESS AND PHONE NUMBER 19701 Fairchild Irvine, CA 92612-2445 (949) 608-2900 Fax: (949) 608-4417		DATE(S) OF INSPECTION 8/15/2017-9/26/2017* FEI NUMBER 3013030904		
Nancy J. Costlow, PharmD, RPh, Director				
Atlas Pharmaceuticals, LLC	711 E. Carefree Highway Suite 107			
CHY, STATE, ZIP CODE, COUNTRY Phoenix, AZ 85085-0101	Type Establishment inspected Outsourcing Facility			

The batch production and control records are deficient in that they do not include documentation of the accomplishment of each significant step in manufacturing, processing, packing and holding.

Specifically, there are deficiencies in the "Master Formulation Record" (batch record) for the Ascorbic Acid 500mg/mL Injection in 50mL drug product, lot number S-60008 dated 06/22/2017 and for the Media Fill Challenge (media fill batch record) dated 06/06, 12, 15, and 23/2017. Examples of batch record deficiencies included, but were not limited to the items listed below.

- Missing equipment lot numbers;
- Missing lot numbers and missing expiration or use by date for sterilized items, such as
 (b) (4) containers and closures;
- No documentation by Operator(s) to show that each step was completed; and
- No documentation of the product (b) (4) test.

OBSERVATION 9

Drug products are not stored under appropriate conditions of temperature so that their identity, strength, quality, and purity are not affected.

Specifically, on 8/15/2017, I observed vials of Ascorbic Acid lot number S-60008 that were stored as "Released" (by Quality) product in your firm's Active Stock and Shipping Area. The product label on Ascorbic Acid lot # S-60008 instructs users to store the product at 2°C to 8°C; however, these vials were being stored at ambient temperature.

OBSERVATION 10

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

SEE REVERSE OF THIS PAGE	Stephanie A Slater,	Investigator Baptwee A Black treatgate X Septime A State treatgate X Septime A State X Septime (School 2017 Ltd.)	9/26/2017
FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLETE	INSPECTIONAL OBSERVATIONS	PAGE 14 OF 15

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION DISTRICT ADDRESS AND PHONE NUMBER DATE(8) OF INSPECTION 19701 Fairchild 8/15/2017-9/26/2017* Irvine, CA 92612-2445 3013030904 (949) 608-2900 Fax: (949) 608-4417 NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED Nancy J. Costlow, PharmD, RPh, Director STREET ADDRESS FIRM NAME Atlas Pharmaceuticals, LLC 711 E. Carefree Highway Suite 107 CITY, STATE, ZIP CODE, COUNTRY TYPE ESTABLISHMENT INSPECTED Phoenix, AZ 85085-0101 Outsourcing Facility

Specifically, your firm has sent "stability samples" to your third party laboratory to test container/closure, identity, and potency. However, no protocols or documents exist to indicate parameters, including, but not limited to: dates when samples were placed on stability; dates when samples were pulled for stability; or stability sample storage conditions.

OBSERVATION 11

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

Specifically,

PAGES

The labels of your outsourcing facility's drug products do not include information required by section 503B(a)(10)(A). Specifically,

- The statement, "Not for resale," is not on your drug product labels. Labels for the following drug product do not contain this statement:
 - Ascorbic Acid Injection 500 mg/mL, 50 mL vial

*DATES OF INSPECTION

8/15/2017(Tue), 8/16/2017(Wed), 8/17/2017(Thu), 8/18/2017(Fri), 8/21/2017(Mon), 8/22/2017(Tue), 8/23/2017(Wed), 8/24/2017(Thu), 9/18/2017(Mon), 9/19/2017(Tue), 9/20/2017(Wed), 9/26/2017(Tue)

SEE REVERSE OF THIS PAGE		Investigator	Shephanie A Estas V singues X Sepus 6y Shephanie A Shidar -3 John Serzet Sé-20-20/1 10:06:32	9/26/2017
FORM FDA 483 (69/08)	PREVIOUS EDITION OBSOLETE	INSPECTIONAL OBSERVA	TIONS	PAGE 15 OF 15