	DEPARTMENT OF HEAL FOOD AND DRU			
DISTRICT ADDRESS AND PHON	DDRESS AND PHONE NUMBER		DATE(S) OF INSPECTION	
	awn Drive, Room 2032		3/12/2018-3/20/2018* FEI NUMBER	
Rockville, MI	Rockville, MD 20857		3004956904	
NAME AND TITLE OF INDIVIDUA	AL TO WHOM REPORT ISSUED			
	Pandey, Head of Formulation O	_		
FIRM NAME		STREET ADDRESS		
Alembic Pharm	maceuticals Limited	Village TYPE ESTABLISHME	Panelav, Near Baska	
The state of the s	arat, 389350 India		Lid Dosage Drug Manufacturer	
observations, and do observation, or have action with the FDA	observations made by the FDA representative(s) not represent a final Agency determination regimplemented, or plan to implement, corrective representative(s) during the inspection or submitact FDA at the phone number and address about	arding your con action in respon it this informati	mpliance. If you have an objection regarding nse to an observation, you may discuss the ob-	an ojection or
DURING AN INSPEC Laboratory Contr	ction of your firm observed: rol System			
OBSERVATION 1 There is a failure to thoroughly review any unexplained discrepancy and the failure of a batch or any of its components to meet any of its specifications whether or not the batch has been already distributed. A. Specifically, your firm failed to take appropriate corrective and preventative actions to reduce the high number of invalidations in a timely manner when Out of Specification (OOS) results were observed as evidenced by the following: In 2016, your firm reported 140 OOS results (raw materials, in-process and finished products) for U.S. marketed drug products for Dissolution, Assay, Content Uniformity and Related Substances. Your Quality Control Unit (QCU) invalidated 131 of the 140 OOS results (94% invalidation rate) due to analyst error (i.e. sample preparation), glass contamination, etc. In 2017, your firm reported 129 OOS results and your QCU invalidated 117 (91% invalidation rate). In 2018 (January-March), your firm reported 30 OOS results and your QCU invalidated 19 (63% invalidation rate). The following examples include, but are not limited to, OOS results that were invalidated by your firm's QCU without scientific rationale and supporting documentation:				
a. OOS #ALP/QA/OOS-8042: Opened on February 2, 2018 for high assay, (b) (4) % (specification: (b) %-(b) (4) %) for (5) (4) Tablets USP (b) (4) mg (stage: (b) (4) tablets) batch # (mfg.: 12/17, exp.: (b) (4)). Your firm attributed the root cause as a sample preparation error which is not supported since the re-injection, re-filled and re-				
SEE REVERSE OF THIS PAGE	EMPLOYEE(S) SIGNATURE Jessica L Pressley, Investig Dedicated Drug Cadre	gator -	Jacobica L. Precolary Interestingular - Desicated Drug Codine X Signed By Jessica L. Pressley -S Date Signed: CG-20-2018 04:30-49	JED /2018

INSPECTIONAL OBSERVATIONS

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FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION						
DISTRICT ADDRESS AND PHONE NUMBER	DROG ADMINISTRATIC	DATE(S) OF INSPECTION				
12420 Parklawn Drive, Room 2032 Rockville, MD 20857	-	3/12/2018-3/20/2018* FEI NUMBER				
ROCKVIIIE, MD 2003/		3004956904				
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED						
Ravindra K. Pandey, Head of Formulation	n Operations					
Alembic Pharmaceuticals Limited		Panelav, Near Baska				
CITY, STATE, ZIP CODE, COUNTRY		TABLISHMENT INSPECTED				
Tajpura, Gujarat, 389350 India	Oral Soli	d Dosage Drug Manufac	cturer			
diluted sample confirmed the high OOS result for assay. In addition, your firm failed to evaluate the other Tablets USP ng batch # that was prepared by the same analyst that your firm stated conducted the sample preparation inadequately.						
b. OOS #ALP/QA/OOS-8027: Opened result of (b) (4) % (specification: NMT) (b) (4) mg (stage: 04/17, exp. (b) (4) . Your firm attribu (volumetric flask), stopper, or mortar contamination cannot be considered (b) (4) %), re-injection (b) (4) %), re-fille causes such as contamination of the snot investigated.	(b) (4) %) for the R 6 Month CRT ated the root can r and pestle whi for the failing ro ed (b) (4) %) and	Stability) batch # ^{(b) (4)} use as glassware contaminate is not supported as glassesults of all samples: T1 (^{(b) (4)}). (c)	(mfg.: ation			
c. OOS #ALP/QA/OOS-8058: Opened (specification: (b) /4 /6 /6 /6 /6 /6 /6 /6 /6 /6 /6 /6 /6 /6	s, your analyst we current Method rain analysts to trent method to	vas instructed to one of the control	and then dition, your ance of the			
d. OOS #ALP/QA/OOS-6491: Opened on December 11, 2016 for high assay, (b) (4) (specification: (b) %-(b) (4) %) for Validation Batch: (b) (4) (mfg.: 11/16, exp.: (b) (4) Your firm attributed the root cause as a dilution error (analyst wrongly used graduated pipettes). In addition, your firm failed to evaluate the other (b) (4) Tablets USP (b) (4) ng batch # (b) (4) and						
SEE REVERSE Jessica L Pressley, Inves OF THIS PAGE Dedicated Drug Cadre	tigator -	Jesske L Pressley Investigator - Dedicated Drug Cating Sales Sty. Jesskin L. Pressley - S X Date Signed: 03-20-2018 04:55:49	DATE ISSUED 3/20/2018			
FORM FDA 483 (09/08) PREVIOUS EDITION OBSOLETE INSPECTIONAL OBSERVATIONS PAGE 2 OF 6 PAGES						

	DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION					
DISTRICT ADDRESS AND PHON	DRESS AND PHONE NUMBER		FINSPECTION			
	lawn Drive, Room 2032		3/12/2018-3/20/2018* FEI NUMBER			
Rockville, MI	20837	3004	956904			
NAME AND TITLE OF INDIVIDUA	AL TO WHOM REPORT ISSUED					
Ravindra K. 1	Pandey, Head of Formulation (perations				
FIRM NAME		STREET ADDRESS				
Alembic Pharm	maceuticals Limited	Village Panel	av, Near Baska			
	arat, 389350 India		sage Drug Manufac	cturer		
batch # (b)(4) that was prepared by the same analyst that your firm stated conducted the sample preparation inadequately. e. OOS #ALP/QA/OOS-6114: Opened on April 2016 for high assay, (b)(4) % (specification: (a) % (b)(4) % (of point) (of po						
OBSERVATION 2						
	EMPLOYEE(S) SIGNATURE			DATE ISSUED		
SEE REVERSE	Jessica L Pressley, Investi	gator -		3/20/2018		
OF THIS PAGE	Dedicated Drug Cadre		Jessica L Pressley Investigator - Dedicated Drug Cadre			
			Signed By: Jessica L. Pressley -S Date Signed: 03-20-2018 04:55:49			
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DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION					
DISTRICT ADDRESS AND PHON	NE NUMBER	J. Francisco	DATE(S) OF INSPECTION		
Rockville, M	awn Drive, Room 2032 MD 20857		3/12/2018-3/20/2018* FEI NUMBER		
	,		3004956904		
NAME AND TITLE OF INDIVIDU					
Ravindra K. I	Pandey, Head of Formulation O	perations street ADDRESS		-	
	maceuticals Limited		Panelav, Near Baska		
Tajpura, Guja		Oral Sol		cturer	
Employees are not given training in the particular operations they perform as part of their function and written procedures required by current good manufacturing practice regulations. Specifically, your firm's SOP #ALP/QC/SOP032 (dated January 4, 2018) titled, "Qualification of Analyst" is inadequate as Section 5.1.19 states, "re-qualification of an analyst is to be done if (a) consecutive OOS results are observed due to human error"; therefore, your Quality Control Analysts' are not being properly qualified as evidenced by the following example: Analyst (b)(6) in (b)(4) in (b)					
SEE REVERSE OF THIS PAGE	EMPLOYEE(s) SIGNATURE Jessica L Pressley, Investig Dedicated Drug Cadre	gator -	Jessica L Pressley Investigator - Decicated Drug Signed By - Jessica L Pressley - S Date Signed: 03-20-2018 04:56:49	DATE ISSUED 3/20/2018	

INSPECTIONAL OBSERVATIONS

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FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

		OF HEALTH AND HUM. AND DRUG ADMINISTRAT			
DISTRICT ADDRESS AND PHON	DRESS AND PHONE NUMBER		DATE(S) OF INSPECTION		
12420 Parklav Rockville, MI	awn Drive, Room 2032		3/12/2018-3/20/2018* FEI NUMBER		
ROCKVIIIE, M	7 20037	20857		3004956904	
NAME AND TITLE OF INDIVIDUA	AL TO WHOM REPORT ISSUED				
Ravindra K. H	Pandey, Head of Formulat	tion Operations			
FIRM NAME		STREET ADDRESS			
	mbic Pharmaceuticals Limited Village Panelav, Near Baska				
CITY, STATE, ZIP CODE, COUN	arat, 389350 India	Oral Sol	id Dosage Dr	ua Manufac	turer
rajpura, Guje	11ac, 303330 11lata	0101	.id bosage bi	ag Hallalac	curci
l					
Production Syste	m				
OBSERVATIO)N 3				
	itten procedures for producti	on and process co	ntrols designed	to assure tha	at the drug
	ne identity, strength, quality,				
Specifically, the	Hold Time Studies th	nat your firm has c	conducted for dr	ug products	marketed in
the US are defic	cient. The batch sizes used for	or the establishme	nt of Hol	d Times do 1	not represent
the commercial	batch size of the drug produc	cts. To date, your	firm has condu	cted (b) (4)	Hold Time
Studies utilizing	g this approach for all (b) (4)	representing appr	oximately(b)(4)	ug products	intended for
	as evidenced by the following			ug producto	
line os market t	is evidenced by the following	s examples.			
Drug Produc	t Batch Size	Process Q	uantity Used	Established	
	(b) (4) Stage)	fc	or the (b) (4)	Time (b)	(4)
		Hol	d Time Study	Stage	e)
(b) (4) (b) (4)	(b) (4)				
Tablets					
$USP_{(4)}^{(6)}$ ng					
(b) (4)					
(6)(4)					
75. 1.1 (b) (4)					
Tablets (b) (4) ng					
(b) (4)					
SEE REVERSE	EMPLOYEE(S)SIGNATURE Jessica L Pressley, In	vestigator -	1		3/20/2018
OF THIS PAGE	Dedicated Drug Cadre	. Julyacor	Jes	sica L Pressley estigator - Dedicated Drug	3/20/2010
				stigator - Dedicated Drug ire ned By: Jessica L. Pressley -S a Signed: 03-20-2018 04:55:49	
FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLETE	INSPECTIONAL O	OBSERVATIONS		PAGE 5 OF 6 PAGES

	DEPARTMENT OF HE	ALTH AND HUM. RUG ADMINISTRAT			
DISTRICT ADDRESS AND PHON		ROG ADMINISTRAT	DATE(S) OF INSPECTION		
12420 Parklaw	wn Drive, Room 2032		3/12/2018-3/20/2018*		
Rockville, MI	D 20857		FEI NUMBER 3004956904		
			3001330301		
NAME AND TITLE OF INDIVIDUA	AL TO WHOM REPORT ISSUED				
Ravindra K. B	Pandey, Head of Formulation	Operations			
FIRM NAME		STREET ADDRESS			
	naceuticals Limited		Panelav, Near Baska		
CITY, STATE, ZIP CODE, COUNT		TYPE ESTABLISHM	entinspected .id Dosage Drug Manufacturer		
Tajpura, Guja	arat, 389350 India	Oral Sol	id Dosage Drug Manufac	cturer	
Cananalaa (b)					
Capsules (b) ng	(b) (4)				
Tablets (4) ng					
(b) (4) &					
(b) (4) (b) Tablets					
/(4) ng					
(b) (4) &					
(b) (4) Tablets					
$\binom{(b)}{(4)}$ ng					
Since March 2016, approximately 113 investigations have been initiated for either has a stage for products marketed in the US. *DATES OF INSPECTION 3/12/2018(Mon), 3/13/2018(Tue), 3/14/2018(Wed), 3/15/2018(Thu), 3/16/2018(Fri), 3/19/2018(Mon), 3/20/2018(Tue)					
SEE REVERSE OF THIS PAGE	EMPLOYEE(S) SIGNATURE Jessica L Pressley, Invest Dedicated Drug Cadre	tigator -	Jessica L. Pressley Investigator - Dedicated Drug Comed By - Jessica L. Pressley - S Date Signed: 03-20-2018 04:55:49	DATE ISSUED 3/20/2018	
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