DEPARTMENT OF HEALTH A FOOD AND DRUG ADI	
DISTRICT ADDRESS AND PHONE NUMBER	DATE(S) OF INSPECTION
12420 Parklawn Drive, Room 2032	5/12/2022-5/20/2022*
Rockville, MD 20857	FEI NUMBER 3004672766
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED	•
Pareen Dashottar, Vice President & Site Head	l
FIRM NAME STR	EET ADDRESS
Glenmark Pharmaceuticals Limited Pl	ot No S - 7, Colvale Industrial Estate
CITY, STATE, ZIP CODE, COUNTRY TYPE	E ESTABLISHMENT INSPECTED
Colvale, Goa, 403513 India	rug Manufacturer

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

Investigations of an unexplained discrepancy and a failure of a batch or any of its components to meet any of its specifications did not extend to other batches of the same drug product and other drug products that may have been associated with the specific failure or discrepancy.

- 1. Investigations that confirmed leakage near the (b) (4) of (b) (4) dosage products were not thoroughly investigated to identify a root cause and extended to all relevant products packaged tubes that are distributed to the US market. For example:
 - Investigation INI103211322 dated November 23, 2021, was opened when a tube of (b) (4) Gel (b) (6) (7) from exhibit batch (b) (4) for the European market was found to be leaking near the (b) (4) prior to testing for the six-month accelerated study timepoint. The product, tubes, equipment, and manufacturing process are the same as the already commercialized product for the US market.

The investigation was closed without thoroughly investigating and did not identify a root cause for the leakage near the (b) (4) of the tube.

Further, the investigation stated there were no related market complaints for commercialized (b) (4) Gel. % product. However, US market complaints for leaking tubes were received for (b) (4) Gel and other products manufactured on the same (b) (4) filling machine.

SEE	REV	ERSE
OF 1	HIS	PAGE

EMPLOYEE(S) SIGNATURE Justin A Boyd, Investigator Jose M Cayuela, Investigator - Dedicated Drug Cadre



DATE ISSUED 5/20/2022

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DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION					
DISTRICT ADDRESS AND PHONE NUMBER	DATE(S) OF INSPECTION				
12420 Parklawn Drive, Room 2032	5/12/2022-5/20/2022*				
Rockville, MD 20857	FEI NUMBER 3004672766				
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED					
Pareen Dashottar, Vice President & Site B	Head				
FIRM NAME	STREET ADDRESS				
Glenmark Pharmaceuticals Limited Plot No S - 7, Colvale Industrial Esta					
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED				
Colvale, Goa, 403513 India Drug Manufacturer					
	· ·				

- b. Complaint GOMC20401 received September 4, 2020, for (b) (4) Ointment (b) (4) % batch (Expiry December 2021) from a distributor identified approximately 784 tubes with product leaking from the (b) (4) and discoloration due to leaking from the (b) (4) . The complaint was closed as substantiated. The investigation was not extended to US market batches of (b) (4) Ointment (b) (4) % that were manufactured on the same (b) (4) filling machine or any other product manufactured on the (b) (4) filling machine.
- c. Complaint GOMC21115 received March 19, 2021, for (b) (4) Ointment (b) (4) % batch (Expiry September 2022) from a distributor that identified approximately 45 tubes with discoloration near the (b) (4) end and leaking product from the (b) (4). The complaint was closed as substantiated, but the investigation did not identify a root cause and was not extended to US market batches of (b) (4) Ointment (b) (4) % that were manufactured on the same (b) (4) filling machine or any other product manufactured on the (b) (4) filling machine.
- d. US market complaint GOMC18362 received on October 24, 2018, for (b) (4)

 Cream (b) (4) % batch number (b) (4) (Expiry August 2020). The complainant described the (b) (4) of the tube was leaking. The product was manufactured on the (b) (4) filling machine. The complaint was closed as substantiated with no market action taken.
- e. US market compliant GOMC18371 received on October 30, 2018, for (b) (4)

 Cream (b) (4) % batch number (b) (4) (Expiry August 2020). The complainant described leakage from the (b) (4) . The product was manufactured on the (b) (4) filling machine. The complaint was closed as substantiated with no market action taken.

The following US market leaking product complaints were received for products manufactured

SEE REVERSE OF THIS PAGE OF THIS PAGE Drug Cadre EMPLOYEE(S) SIGNATURE Justin A Boyd, Investigator Jose M Cayuela, Investigator - Dedicated Drug Cadre	Justin A Boyd investigator 2003/58696 Dale Signed 05-20-2022 X 13 29 45	DATE ISSUED 5/20/2022
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DISTRICT ADDRESS AND PHOI	NE NUMBER		DATE(S) OF INSI		
Rockville, M	vn Drive, Room 2032		5/12/20 FEI NUMBER	022-5/20/2022*	
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NAME AND TITLE OF INDIVIDUA	AL TO WHOM REPORT ISSUED				
Star 294 C 40 C	ttar, Vice President & Site F	lead			
FIRM NAME	sear, vice free and a proc .	STREET ADDRESS			
Glenmark Phan	rmaceuticals Limited	Plot No		Colvale Industr	ial Estate
	, 40351 <mark>3 India</mark>	Drug Man		er	
into (b) (4				re closed as unsub	
ł	Complaint GOMC19044 received of oatch (b) (4) (Expiry August 2 pottom of the tube. The product was	020). The	complaint	described a seve	Gel 6 % ere leak at the hine.
(1	Complaint GOMC19055 received of (Expiry May 2020). The sealed and leaking. The product was	e complaina	nt describ	bed the (b) (4) wa	el (b) % batch s incompletely hine.
(1	Complaint GOMC19484 received % unknown batch number. Thand leaking out. The product was m	he complair	nant descr	ibed the tube was	Cream s splitting open e.
(1	Complaint GOMC20145 received of (Expiry August 2021). The aking. The product was manufactured of the complaint GOMC20145 received of the c	he complain	ant descr	ibed the (b) (4) at t	Gel ^(b) % batch the bottom was
t • (Complaint GOMC20511 received Noatch (b) (4) (Expiry June 2022) Colded part. The product was manuf GOMC21313 received on August 2 (Expiry February 2023). The tube due to cracks. The product GOMC22044 received on February Expiry April 2023). The complainment in several places other than the terms of the control of the complainment in several places other than the terms of the complainment in several places other than the terms of the complainment in several places other than the terms of the complainment in several places other than the terms of the complainment in the complainment	The complactured on to 2021, for the complactured was manufacted and described and described to the complacted of the complacted the complacted of the compl	laint describe (b) (4) for (b) (4) inant described on (c) (b) (4) ed the tub	ribed a hole in the filling machine. Ointment USP 6 9 cribed the tube lead the (b) (4) filling 1 Gel (b) % be had leaks with	% batch ks all through nachine. atch (b) (4) product oozing
SEE REVERSE	EMPLOYEE(S) SIGNATURE Justin A Boyd, Investigator		ated	Justin A Boyd	DATE ISSUED 5/20/2022
OF THIS PAGE	Jose M Cayuela, Investigato Drug Cadre	r - nedica	aled	Justin A Coyd Investigator Signed 69; 2000358686 Balled Signed 05-20-2022 X 13 29 45	

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	DEPARTMENT OF HEAL FOOD AND DRUG	TH AND HUMA G ADMINISTRATIO		
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Rockville, M			5/12/2022-5/2 FEI NUMBER	0/2022
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NAME AND TITLE OF INDIVIDUA	AL TO WHOM REPORT ISSUED			
Pareen Dashot	ttar, Vice President & Site H			
Glenmark Phan	rmaceuticals Limited			Industrial Estate
Colvale. Goa		TYPE ESTABLISHMEN		
Further, limited dried ou whether	machine. • MC/I103/2022/0004 received on March 2, 2022, for (b) (4) Ointment USP (b) % batch (b) (4) (Expiry April 2023). The complainant described how the it seemed like the seal was not very good. The product was manufactured on the filling machine. This complaint was not yet closed as of May 17, 2022. Further, multiple US market complaints for (b) (4) Ointment USP (b) % including, but no limited to GOMC22053, GOMC21432, GOMC21408 have been received for product that was dried out or difficult to remove from the tube. There has not been a thorough evaluation of whether these complaints are related to the market complaints and investigations identifying non integral packaging.			2022. 6 % including, but not yed for product that was thorough evaluation of
(b) (4) stratified 2020. Tl a. I	Tablets since May of 2018 for following the investigations have not been thore investigation INI102210272 was on assay in batch (b) (4) of (b) (4) sepecifications. The batch was reject use of a high (b) (4) setting for the segregation of (b) (4) powder in the bottom of (b) (4) had been established.	ailures of the been 10 vough and expensed when the fed. The inverse (b) (4) on	alid OOT investitended to other but stratified samp Tablets estigation identified the compression	gations since January of atches, for example: oling of finished tablets (b) mg did not meet
1	The investigation conducted a study imits as a preventive action. This a product, (b) (4) Tab	action was r	not extended to t	os and implemented new he other strength of this led to ensure appropriate
SEE REVERSE OF THIS PAGE	EMPLOYEE(S) SIGNATURE Justin A Boyd, Investigator Jose M Cayuela, Investigator Drug Cadre	r - Dedica	ted Justin A Be Investigate Supre X 13 29 45	DATE ISSUED 5/20/2022 5/20/2022
FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLETE INS	PECTIONAL O	BSERVATIONS	PAGE 4 of 14 PAGES

DEPARTMENT OF HEA FOOD AND DR	ALTH AND HUMAN EUG ADMINISTRATION	
DISTRICT ADDRESS AND PHONE NUMBER	l l	DATE(S) OF INSPECTION 5 /1 2 /2 0 2 2 - 5 /2 0 /2 0 2 2 *
12420 Parklawn Drive, Room 2032 Rockville, MD 20857		5/12/2022-5/20/2022* FEI NUMBER
	1.5	3004672766
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED	<u> </u>	
Pareen Dashottar, Vice President & Site	Head	
FIRM NAME	STREET ADDRESS	
Glenmark Pharmaceuticals Limited	A STATE OF THE PARTY OF THE PAR	- 7, Colvale Industrial Estate
COLUMN CO	TYPE ESTABLISHMENT	PAGE 12
Colvale, Goa, 403513 India	Drug Manuf	iacturer
Operators can change the (b) (4)		olet product produced for the US market. a batch, meaning a portion of the batch
may use a higher (b) (4) and	be more susce	eptible to (b) (4) segregation than
other parts of the batch. The inve	estigation did i	not evaluate compression machine PLC
data to determine the (b) (4) Tablets (b) mg, for batches of (b)	used for pre	evious batches of (b) (4)
Tablets (b) mg, for batches of (b)	(4)	Tablets (b) mg, or for any other
tablet product distributed to the Us	s market that c	could have been impacted by segregation
due to excessive (b) (4) for	a portion or all	l of the batch.
b. Investigation OOSI10221029 was (b) (4) Tablets (b) The investigation identified the repossibility of improper (b) (4) due	mg failed (b) (4) not cause to be	The batches were rejected. that led to the
specification for (b) (4) of the specification for (b) (4) of Subsequent batches were found to batches, for example batches investigation recommended additional control of the (b) (4) of the specification for (b) (4) of the (b) (4)	, but the specthe (b) (4) of no o have similar (4)	
investigations OOSI10320189 (batch	o low viscosity as low intrin	ober-November of 2020 resulted in OOS OOSI10320200 (batch (b) (4)), and y. All three batches were rejected. The asic viscosity of an excipient, (b) (4) . All excipient batches had met the
SEE REVERSE Justin A Boyd, Investigato Jose M Cayuela, Investigat Drug Cadre		Justin A Boyd Investigator Didle Stylet 05-20-2022 X 13 29 45 DATE ISSUED 5 / 2 0 / 2 0 2 2 5 / 2 13 29 45

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Rockville, MI			FEI NUMBER	SEC. (1487-66-1)	022	
			3004672	2766		
NAME AND TITLE OF INDIVIDUA			1 v			
Pareen Dashot	tar, Vice President & Site H	ead street address				
LEADER CAN DESCRIPTION	rmaceuticals Limited	present At the section		Colvale In	dustri	al Estate
J. St. 176 St.	403513 India	Drug Man		er		
viscosity	or the finished product before con	oroughly e	valuate th duction.	e impact of	(b) (4)	olement new
which h (b) (4) (b) (4)	estigation proposed using (b) (4) and the same specifications for (b) (Subsequently, (b) (4) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	batches we nes (b) (4)	ere manuf (OC	OTI1032100	f (b) -(b) (4) -(4) (anuary (7) and	m ³ /kg as of 2021 with (b) (4)
			used (b) (4	4)	V	vith the same
m^3/kg results, investiga viscosity	g viscosity value from the supple that was observed for the rejected they had higher viscosity than hist ate these batches or ensure the to vis supported by validation data the investigation recommended goin	d batches. A corical batch esting of (b) demonstrate	Although hes. The tube ing unifo	they were vinvestigation at random ra	within s n did no for fini	specifications of thoroughly shed product throughout a
Commer changes	rcial production resumed with (b) to the specification for (b) (4)	7	viscosity l	have been ir	npleme	, but no nted. (b) (4)
1 100	that was found outside the ra proved and used in released batches	nge of (b) . For examp	(b) m/ ole, batche	3/kg during (b) (4)	and (b)	al testing has
failed sp investiga was with	ation OOSI10322011 was opened recifications for content uniformity ation identified the root cause to be hin the existing specifications. The e product that used the same API rengths.	on Januar too large investigation	y 20, 202 of particle on was no	e size of the ot extended	API, e	rejected. The ven though it r strengths of
	EMPLOYEE(S) SIGNATURE				T D	DATE ISSUED
SEE REVERSE OF THIS PAGE	Justin A Boyd, Investigator Jose M Cayuela, Investigator Drug Cadre	r - Dedica	ated	Justin A Boyd Investigator Signed By 2000358 Date Signed 05-20-2 X 13 29 45	ί	5/20/2022
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	TH AND HUMAN SERVICES G ADMINISTRATION			
DISTRICT ADDRESS AND PHONE NUMBER	DATE(S) OF INSPECTION			
12420 Parklawn Drive, Room 2032 Rockville, MD 20857	5/12/2022-5/20/2022* FEI NUMBER			
ROCKVIIIC, IID 20037	3004672766			
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED	<u>_</u>			
Pareen Dashottar, Vice President & Site H	ead			
FIRM NAME	STREET ADDRESS			
Glenmark Pharmaceuticals Limited	Plot No S - 7, Colvale Industrial Estate			
Colvale, Goa, 403513 India	Drug Manufacturer			
And the proof of the control of the	Section 2 and 50 The Control of the			
Additionally, OOTI10322008 was opened	when $^{(b)}(4)$ Capsules $^{(b)}_{(4)}$ mg batch $^{(b)}(4)$			
was out of trend for content uniformity or	n January 24, 2022. The investigation attributed the			
	article size distribution described in OOSI10322011.			
The batch was released.				
Subsequently, OOS I103/2022/0013 was				
(b) (4) failed content uniformity on Ma	rch 17, 2022. The same root cause related to particle			
size distribution of the API was assigned.				
OF THE CONTRACTOR OF THE PARTY	(b) (A)			
Investigation INI103211301 was opened w				
	hold time study prior packaging on November 16,			
The state of the s	gation did not thoroughly investigate and identify a			
root cause for why the tablets were broken.				
The investigation did not address market complaint GOMC21160 for batch (b) (4) of (b) (4) Tabs (b) mg on April 8, 2021, which reported broken tablets and was closed as				
ing on April 6, 2021, which reported bloken tablets and was closed as				
unsubstantiated.				
F 1 (1 (b) (4) (1 224 1 1 4 11 4 125 22 1 1 1/ 1 4 11 4 1 4 1				
From batch (b) (4), there were 224 broken tablets and 2532 chipped/capped tablets rejected during in-process inspections. From batch (b) (4), there were 186 broken tablets and 3403				
	, there were 186 broken tablets and 3403 process inspections. There are no established limits			
	ed on the type and number of rejects observed during			
in-process inspection.	ed on the type and number of rejects observed during			
in process inspection.				
6. Investigation OOSI10321012 was opened	when (b) (4) Capsules USP (b) mg batch			
	assay or organic impurities on January 21, 2021. The			
batch was rejected. The root cause describe	ed that remnants of (b) (4) from the (b) (4)			
Suite was rejected. The rest suite describe	Tom me			
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OF THIS PAGE Jose M Cayuela, Investigato: Drug Cadre	r - Dedicated Justin A Boyd Investigator Signed By 200358686 Dale Stufed 05-20-2022			
Drug Cadre	X 132945			
FORM FDA 483 (09/08) PREVIOUS EDITION OBSOLETE INS	SPECTIONAL OBSERVATIONS PAGE 7 of 14 PAGES			

	DEPARTMENT OF HEAI FOOD AND DRU	TH AND HUMA G ADMINISTRAT		ES	
DISTRICT ADDRESS AND PHON	NE NUMBER		DATE(S) OF INS		
Rockville, MI	vn Drive, Room 2032		5/12/2022-5/20/2022* FEI NUMBER		
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NAME AND TITLE OF INDIVIDUA	AL TO WHOM REPORT ISSUED		l.		
Pareen Dashot	ttar, Vice President & Site F	Head			
FIRM NAME		STREET ADDRESS		Service Park Afficial Color Service Afficial	tones arms assess the tea
Teaching resources and property of the continuous and	rmaceuticals Limited	The state of the s		Colvale Industr	ial Estate
COLVENIO GOO	тку , 403513 India	Drug Man	70000 100	ar.	
colvale, Goa,	, 403313 India	Drug Man	uracture	31	
interacte complet	ed with the API, causing the formated to apply (b) (4) directly di	ion of the into the table	npurity. I t ^{(b) (4)}	However, a hypotl and the impurit	nesis study was y peak was not
was OO to a disi	stion OOSI10320163 was opened was for unknown impurities. The manner of the confectant used in the confectant used	nufacturing	investiga cause ide	ets USP (b) mg b tion correlated the entified that disinf instead of (b) (4)	impurity peak
in the O (b) (4) original as a sou	OSI10320163 investigation. No ph Repeat testing and testing of pa analysis, although the associated race of the peak at this retention time laboratory contamination, without	ase 1a labor ackaged tab nanufacturin e. The origin	ratory erro lets did n ng investi nal analys	ot identify the sar gation identified t sis was invalidated	with the peak in me peak as the the disinfectant I and attributed
discharg (b) (4) rejected was ^(b) (4	There was no cleaning verification	of ^{(b) (4} % had alrea on swab tak	dy been : ten after	intment USP () % manufactured in (failed. Batches and was The next batch
No furtl	ner additional cleaning verification	n samples v	vere taker	n as part of the i	nvestigation to
	EMPLOYEE(S) SIGNATURE				DATE ISSUED
SEE REVERSE OF THIS PAGE	Justin A Boyd, Investigator Jose M Cayuela, Investigato Drug Cadre		ated	Justin A Boyd Investigator Signed By 200035686 Date Sagred 05-20-2022	5/20/2022
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FOOD AND DRUG	GADMINISTRATION
DISTRICT ADDRESS AND PHONE NUMBER 12420 Parklawn Drive, Room 2032	DATE(S) OF INSPECTION 5/12/2022-5/20/2022*
Rockville, MD 20857	FEI NUMBER 3004672766
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NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED	L
Pareen Dashottar, Vice President & Site H	ead
Glenmark Pharmaceuticals Limited	Plot No S - 7, Colvale Industrial Estate
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED
Colvale, Goa, 403513 India	Drug Manufacturer
9. INI103210838 was opened when (b) (4) Tablets USP, batch (b) (4) Tablets were taken from was rejected. The roto allow for sampling by IPQA after co	process checks for tablet hardness for core (b) (4), were above the established limit. The container the cot cause was attributed to leaving the tablet bag open impression had been completed. The investigation the tablets are left open to the environment for (b) (4)
tablets during sampling, but no evaluation how long the bags can remain open during breaks or machine breakdowns. Additionall other products were sensitive to the eninstructions.	was made of how this impacted tablets. Including, a normal operations or when there are stoppages for y, this investigation was not extended to determine if a normal operations and required additional batch record
The root cause identified a lack of instruction including established ranges for (b) (4)	ions for content uniformity. The batch was rejected. tions for properly setting the compression machine. As a preventive action, (b) (4) ranges were on was not extended to ensure appropriate (b) (4)
OBSERVATION 2	
SEE REVERSE Justin A Boyd, Investigator Jose M Cayuela, Investigator Drug Cadre	DATE ISSUED 5/20/2022 - Dedicated Signed by 200358686 Date Signed 05-20-2022 X 13 29 45

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	DEPARTMENT OF HEAD FOOD AND DRU	LTH AND HUM. UG ADMINISTRAT		ES	
12420 Darklas	ENUMBER In Drive, Room 2032		DATE(S) OF INS	PECTION 022-5/20/2022*	
Rockville, MI			FEI NUMBER	022-3/20/2022	
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NAME AND TITLE OF INDIVIDUA	L TO WHOM REPORT ISSUED				
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FIRM NAME		STREET ADDRESS			
Glenmark Phan	rmaceuticals Limited	Plot No	S - 7, (Colvale Industr	ial Estate
CITY, STATE, ZIP CODE, COUN		TYPE ESTABLISHMI			
Colvale, Goa,	403513 India	Drug Man	ufacture	er	
products have the first produc	itten procedures for production and ne identity, strength, quality, and process validation VR/PV/PD/80 inter-batch or intra-batch variable re tested for viscosity.	urity they pu 07 for ^{(b) (4)} ility. For ex	ample, o	Gel 6 % did nly (b) (4) san	not thoroughly mples of filled
batch w tubes w validation viscosity the (b)	To qualify a new supplier of the excipient (b) (4) , one additional process validation batch was conducted and documented in VR/PV/PD/111. During this validation batch, (b) (4) tubes were sampled at each of the (b) (4) of filling. The validation report does not evaluate variability within the batch. The (b) sample had the lowest viscosity with a result of (b) poise and the values increased with each sampling timepoint until the (b) sample, which had the highest result of (b) poise.				
For (b) (4 rejected	Gel 6 %, there we in 2021 for failing to meet viscosit			ected in 2020 an	d two batches
CANADA AND CAMPAGE TO STATE OF THE STATE OF	alidation studies for US market tal or compression machine settings. F	Carried and Carrie		ensure there was	data to support
a.Product specific (b) (4) and (b) (4) limits have not been established for all products. The batch records list the operational capabilities of the machine, not the ranges that would ensure proper machine setting to produce tablets meeting all specifications. Investigations of rejected tablet lots have identified a lack of these parameters as a root cause.					
b.Validation reports used to support the establishment of compression machine compaction force ranges do not include raw data to support actual compression force during the					
SEE REVERSE OF THIS PAGE	EMPLOYEE(S) SIGNATURE Justin A Boyd, Investigator Jose M Cayuela, Investigator Drug Cadre		ated	Justin A Boyd Investigator Signed By 2000358686 Date Signed 05-20-2022 X 13 29 45	DATE ISSUED 5/20/2022

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DISTRICT ADDRESS AND PHONE NUMBER 12420 Parklawn Drive, Room 2032	DATE(S) OF INSPECTION 5/12/2022-5/20/2022*			
Rockville, MD 20857	FEI NUMBER 3004672766			
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED				
Pareen Dashottar, Vice President & Site				
Glenmark Pharmaceuticals Limited	Plot No S - 7, Colvale Industrial Estate			
COLVAIR, Goa, 403513 India	TYPE ESTABLISHMENT INSPECTED Drug Manufacturer			
manufacturing process. For example, process validation for (b) (4) Tablets (b) mg and (b) (4) Tablets (b) mg.				
OBSERVATION 3 Laboratory controls do not include the establishment of scientifically sound and appropriate test procedures designed to assure that drug products conform to appropriate standards of identity, strength, quality and purity. Procedures to ensure accurate and consistent integration of chromatographic peaks have not been established.				
 Procedure CM/QC013 requires the use of the Apex Track Algorithm to be used for integrating all chromatograms. The procedure lists timed integration events that can be manually entered to modify the processing, but does not provide detail on when they should be used, how these events should be used, or how they are reviewed. 				
For example, during the processing of (b) (4) Tablets (b) mg batch (b) (4) . The analyst manually entered events for percent liftoff and percent touchdown that applied to a single unknown impurity peak in the chromatogram. These parameters generated results of (b) (4) % and (b) (4) %, reported as (b) (4) % for this peak. This is a passing result compared to a specification of NMT (b) (4) %. If the percent liftoff and percent touchdown had been applied the same as all other impurity peaks and standard peaks the results would have been (b) (4) % and (b) (4) %, which would not have met specification.				
Even though the analyst is manually setting where the integration lines will be placed with the				

Even though the analyst is manually setting where the integration lines will be placed with the percent liftoff and percent touchdown, the practice is not captured in the requirements of CM/QC013 for manual integration. Manual integration requires supervisory approval and capture of the original system integrated chromatogram and the chromatogram after manual

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FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLETE	INSPECTIONAL OBSERVATION	ONS	PAGE 11 of 14 PAGES

INSPECTIONAL OBSERVATIONS PAGE 11 of 14 PAGES

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION					
DISTRICT ADDRESS AND PHONE NUMBER	DATE(S) OF INSPECTION				
12420 Parklawn Drive, Room 2032	5/12/2022-5/20/2022*				
Rockville, MD 20857	FEI NUMBER 3004672766				
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED	<u> </u>				
Pareen Dashottar, Vice President & Site	e Head				
FIRM NAME	STREET ADDRESS				
Glenmark Pharmaceuticals Limited	Plot No S - 7, Colvale Industrial Estate				
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED				
Colvale, Goa, 403513 India	Drug Manufacturer				

changes for justification.

However, when the analyst manually entered the timed integration events into the processing method for (b) (4) Tablets (b) (a) mg batch (b) (4) , the original Apex Track integrated chromatogram was not saved for review and justification of the changes. Only the final chromatogram is saved.

Procedure CM/QC013 requires a calculation for setting the minimum area for all related substances tests. The analysts are not recording this calculation and it is not being reviewed to ensure the processing method has integrated all required peaks.

For example, during related substances testing for (b) (4) Tablets (b) mg batch (b) (4) there was no documentation of the minimum area calculation. The minimum area was set in the processing method with a value of (b) (4). When calculated according to CM/QC013, the minimum area used in the processing method should have been (b) (4).

3. The chromatography procedures do not require additional evaluation of the method when there is interference with a peak of interest. For example, during testing of (b) (4) Cream batch of (b) (4) for related substances, a placebo peak was not resolved from known Impurity (b).

OBSERVATION 4

Batch production and control records do not include complete information relating to the production and control of each batch.

Procedure 19PD672 requires compression machine operators to calculate the tablet reject limits based on batch specific data from machine set-up. However, operators are using preset values without calculating the batch specific limits. If changes are made to the reject limits, these calculations are not documented in the batch record or reviewed to determine if the parameters were set correctly to reject

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DISTRICT ADDRESS AND PHO			DATE(S) OF INSPECTION		
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ROCKVIIIe, M	D 20037		3004672766		
	AL TO WHOM REPORT ISSUED				
Pareen Dasho	ttar, Vice President & Si	te Head STREET ADDRESS			
Glenmark Pha	rmaceuticals Limited	The second secon	Plot No S - 7, Colvale Industrial Estate		
COLVENIO CODE	лку , 403513 India	TYPE ESTABLISHMENT INSPECTED			
corvare, Goa	, 403313 INGIA	Drug Maii	Drug Manufacturer		
During investig (b) (4) of (b) (4) compression m		ng and INI1032 mg, the invest-conforming tab	10838 for batch (b) (4) stigations state in the	for (b) (4) impact assessment	
appropriate des	d in the manufacture, processing ign to facilitate operations for it ree (3) dead legs with 3D value plies (b) (4) for the (b) (4) dosage drugs	s of (b) (4) s (e.g., (b) (4)		enance.	
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DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION DISTRICT ADDRESS AND PHONE NUMBER 12420 Parklawn Drive, Room 2032 5/12/2022-5/20/2022* FEI NUMBER Rockville, MD 20857 3004672766 NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED Pareen Dashottar, Vice President & Site Head STREET ADDRESS Plot No S - 7, Colvale Industrial Estate Glenmark Pharmaceuticals Limited CITY, STATE, ZIP CODE, COUNTRY TYPE ESTABLISHMENT INSPECTED Colvale, Goa, 403513 India Drug Manufacturer Jose M Cayuela Investigator - Dedicated Drug Cadre Signed By: 2000631739 Date Signed: 05-20-2022 13:30:25

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