	FOOD AN	D DRUG ADMINISTRATION	DATE(6) OF INSPECT	ION
T ADDRESS	AND PHONE NUMBER		06/02-10/03	
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1401 Rockville P	Pike , Rockville, MD 20852.		3002806949	
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		rector Livernool Facility		
Andy H, Sneddo	on, Head of Manufacturing/Site Di	STREET ADDRESS		7
NAME		Gaskill Road	:	
ns Vaccines Limite		TYPE OF ESTABLISHM	ENT INSPECTED	<u></u>
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ke, Liverpool L24 9	agr uk			RVATIONS, AND DO NOT
MENT, CORRECTIVE ACTION THIS INFORMATION	9GR UK VATIONS MADE BY THE POA REPRESENTATIVE(E ETERMINATION REGARDING YOUR COMPLIANC ON IN RESPONSE TO AN OBSERVATION, YOU MAY TO FDA AT THE ADDRESS ABOVE, IF YOU HAVE	E. IF YOU HAVE AN OBJECTION REGARDING AY DISQUESTIONS THE OBJECTION OR ACTION WE ANY QUESTIONS, PLEASE CONTACT FOR	AG AN CESERVATION, OK PAVE WITCH WITH THE FDA REPRESENTATIVE(S) DE AT THE PHONE NUMBER AND ADDRES	IRING THE INSPECTION IS ABOVE.
G AN INSPECTION OF YOU	UR FIRM WE OSSERVED:			
				essed/c <del>e.</del>
ered, processed	enovalent lots with high levels of into trivalent lote, and released CBE30 and/or CBER notification	ons:		
		0	fil was re-filtered into lot	#760591 and
used in the	me lot #760351 with total biobus formulation of trivalent lot #s:	760688, 760641 & 760640	and in at least final Fluv	ririn released lot
#E456541.	Δ			
and used i	n. Caledonia lot 759931 with tota in the formulation of trivalent lo A.			
			of was re-filtered into i	ot 760136 and
used in the ##128216	ama lot #759864 with total biob e formulation of two trivalent lo MA.			
Fluvirin Ro filtered ba only previ syringe a	is no procedure that requires a eprocessing at Monovalent and atches, R/0184/07/00 dated Au ious monovalent strains, rather and one vial lot in one monovale on bioburden. There is no prote ent strains change from season	igust 1, 2000, was not design than those currently proces ent strain. The Stability Rep tocol for assessment of stal	gned as refiltration protoc issed. The study also on	ly assessed one Ime reflitered or
pre-muau monovais			ste at	ep with high
monovale			13 21	SD Attrition St. *
monovale  2) Control and fail  evels of bioburde  fu, 7.07x10 <sup>7</sup> cfu	lure investigations into bulk Fluen is deficient, in that lots were & 1.25 x 10 <sup>7</sup> cfu in year 2000/2 and the root cause of the high i	2001 and 2001/2002 campa levels of bioburden in these	aigns and no formal inve lots.	e.g., 9.65x10 * stigations has
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	evaluati	on of possible re	eductions in the number of	Gaebae pour parare-			
	monitor	he formulation of Ing was initiated	ced on the formulation tar of New Caledonia lot #764 I at least one hour after all made in Class	connections were mad	de including those to	the <b>Lead</b>	
3	batch # sample environ	762451 that we as well as the a mental monitori	isolated in the Centrifugat nt into batch #762492. K. starile-filtered sample. The ng results prior to this bat	ere was no investigation ch.	of water monitoring		
	with a li 762492 the san	(lebsiella isolate 2) on July 9, 200 ne isolate.	2 to July 5, 2002, 14 2. Closure of the sterility for 12 did not include reference	e to nor investigation of	of the additional fails	d batches wit	th
E.	) There 9 2001 a	was incomplete nd 2002.	review and approval justif	Ication for retests in ste	erility OOS test resu	izz ieniemen i	O,
5) The	e following	g deficiencies w	ere nated in product conte	act equipment compatil	bility:		
	trivaler investig after th	nt bulks. In addit		es has not been eliminations of four out of five	ated as the reason f Fluvirin lots placed	or loss of pot on stability f	ency
	Residu has be	ue with result of the conducted a	d and finished product for 1327 mg per <b>statute</b> test Ind no justification/retional	e is provided for lack of	n, corrective and pre if investigation.	eventive action	olatile >N
incom	npiete. Fo	or example,	ported Fluvirin potency st				
A	L.) The conduction address identification is a congress to the	ss that failures ; fed, including p	ating CBER reagents in the primarily occurred only after otential contributing factors	s specific to the entiger	n and antiserum and	the investiga	
	ERSE THIS	AUTONA NOU	La ani	EMPLOYEE(S) NAME AN Omotunde O Osunsal Robert W. Jennings,	nmi. CSC	DATE ISSUED 6/10/93	
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(301) 827-6191	
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Andy H. Sneddon, Head of Manufacturing/Site Director Liverpool Facility

STREET ADDRESS FIRM NAME

Evans Vaccines Limited CITY, STATE AND ZIP CODE

Gaskili Rozd TYPE OF ESTABLISHMENT INSPECTED

Vaccine manufecturer

THIS DOCUMENT LISTS ORSERVATIONS MADE BY THE FOR REPRESENTATIVE(S) DURING THE INSPECTION OF YOUR FACILITY. THEY ARE INSPECTIONAL OSSERVATIONS, AND DO NOT REPRESENT A FINAL ACENCY DETERMINATION REGARDING YOUR COMPLIANCE. IF YOU HAVE AN OQUISOTION REGARDING AN OBSERVATION, OR HAVE INSPECTION IMPLEMENT, CORRECTIVE ACTION IN RESPONSE TO AN OBSERVATION, YOU MAY DISCUSS THE OBJECTION OR ACTION WITH THE FOR REPRESENTATIVE(S) DURING THE INSPECTION OR RECTION OR ACTION WITH THE PHONE NUMBER AND ADDRESS ABOVE. OR SUBMIT THIS INFORMATION TO FDA AT THE ADDRESS ABOVE.

DURING AN INSPECTION OF YOUR FIRM WE OBSERVED:

PAGES

- B.) The manufacturing investigation did not include a failed 2000/2001 batch and 2001/2002 batches reviewed were not fully identified in the report (Appendix 14). The root cause investigation was not included in the report.
- C.) There was no review and approval of the Summary Report Investigation Into Fluvirin Stability Results by management involved in the investigation. The Summary Report is not deted.
- D.) There was no review and approval of the draft Clinical Expert Report dated September 4, 2002 justifying the firm's decision not to execute product recall. The author of the report is not identified and did not sign the
- 7) The Biological Product Deviation (BPDR) reported June 28, 2002 for reported Fluvirin potency and pH stability test failures was incomplete and failed to provide FDA significant information for timely evaluation. Additionally, there is no justification for management's failure to identify the significance of failing and missing test results during review and approval of the results and the ongoing stability program as required by Stability Policy Document SCP041. For example.
  - A.) The firm simply reported that OOS potency and pH test results had occurred and no failing test results, including failing New Caledonia potency test results and stability test time points (specification minimum mcg HA per SRID), were submitted.
  - B.) Although the firm reported that a failure had occurred for lot# E00931HA, they did not report that the initial failure of the 2001/2002 season (26.8 meg) occurred at the scheduled 6-mo test point reported February 10 2002, over 5 months prior to BPDR submission. The lot also failed at the 9-mo test point (24.9 mcg) in May 2002 and the 12-mo test point (13.1 mcg). The firm did not have a rounding procedure and reportedly did not consider 26.8 mcg a failure-no report to FDA was made for the 6-mo result.
  - C.) No information was submitted to FDA on lot #s E12201MA (24.1 mcg) and E11371LA (21.9 mcg) which failed when first tested on stability at the 7-mo test point on May 26, 2002. Required tests at the 1, 2, 3 and 6-month time points were not executed-this was not reported to FDA. No NCR was initiated for missed time points and failure to submit BPDRs and no justifications have been written. Limited data on these lots were submitted without full explanation in the related September 4, 2002 BPDR. Shelf-life Stability Summary Reports for the two lots, reviewed and approved by QA, QC and RA in January 2003, failed to report and evaluate missed time points in the studies.
- 8) No BPDR was submitted for the Fluvinn pH OOS (7.9) at the 3-month test point on December 18, 2002 for lot # . E34652KA 2002/2003 season. A follow-up report to the September 4, 2002 BPDR was not submitted in which the firm reported that additional OOS pH results were likely to occur in other batches.

réverse of this	O. Oseusanui'	EMPLOYEE(s) NAME AND TITLE (Print or Type) Omotunde O Osunsanmi, CSO Robert W. Jennings, CSO Robin Levis, Ph.D. Regulatory Coordinator Jonethan Molonis, Biologist (1994 (27) INSPECTIONAL OBSERVATIONS	
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(na) 007 £101		
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TO: Andy H. Sneddon, Head of Manu	Ifacturing/Site Director Liverpool Facility	
FIRM NAME	STREET AUDRESS	
Evans Vaccines Limited	Gaskili Road	
CITY, STATE AND ZIP CODE	TYPE OF ESTABLISHME	
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System cleaning valid	dation study CVR/0016/00 dated August 16	
Impact on Fluvinn, From I failed bioburden testing.	e previous FDA 483 stated the evaluation of March 2001 through 2002 at least 30	
to storage between uses.	e executed study CVP/0011/03 dated April I not include bioburden reduction by assess	
potentially reverse the fig	the filtration unit located in the For ow of product under filtration. The filtration is written "Do Not Use". Use of the flow ed next to another dial that requires regula	director would reverse the flow of
10) It was noted during the obsertion on June 4, 2003 that sub-batch Concentrate to the Forms	vation of formulation of A/New Caledonia M samples were not taken as requirulation Department including the day rulir 3. There are no procedures to assure samer been previously identified. The NCR inve	tonovalent Blend Pool batch # 764984 ed (per SOP ZY033A Release of the large days after the large are taken and there is no
11) The following was noted during	ng vial filling on June 6, 2003 (under Protoc	col P/0097/04/03):
requirement to do so.	ation in the batch record of missed stopper	
information on the length panel area could allow the difficult to clean/sanitize.		under the filling machine that would be
vials on 2 occasions dist	o be pushing curtains into the area near op rupting vertical laminar flow.	
D.) 2 plastic yellow beakers	used for holding forceps were scratched a	nd yellowed.

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o: Andy H. Sne	ddon, Head of Manufacturing/Site D	Pirector Liverpool Facility	<u> </u>	
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URING AN INSPECTION OF	ryour firm we oggerved: anitizer efficacy validation study	protocals,		
A.) Study R/008: Bacteria and Ful	3/05/01 Evaluation of Disinfectaring dated July 13, 2001 failed to urfaces (i.e. laminate on doors, Fid not assess cleaning efficacy o	nt Products using Qua include the full range Persney on filling unit	curtains). Additional studies. 1:0	s for both and e,
PQP/0026/01, 0	criteria were not met for Study R	//0083/05/01 ageinst	bacteria including spore-former	s and mold and
no additional DR	Otocols using deel mirremeyang.			
of effects of Holi stability. The su	deviation was Initiated for the fai ding Times on the potency of Flu mmary report, reviewed and app on stability while also stating tha her protocol was not executed.		an arms reported that the	LONALDS Darce
14) Regarding (	Batch records including review, a	approval and batch re	elease,	A hatab sapard
review SOP Q	ures do not assure full review of and product release are not inclu ASP093 QA Procedure for Revis e Checklist (not in SOP PRG020 34, filling batch #762925 and Pa	ew of Finished Produ	ct) and Fluvirin Trivalent Vaccir	ne Product o. Trivalent batch
B.) An inco	orrect NCR was referenced in the	e batch record for the	sterility test for batch # 762834	4.
i.e. B/⊦	(a) 13 1 14 1 3	Adition hosses and		
abort f	was no documentation in the filli or lot# 762838 on June 6, 2002. The leak occurred.	, adioag., a., tvo		
as allowed by	o requirement for investigation of SOP M154 Water Monitoring Ex	CUI 31011 176ports.		water monitoring
16) The follow	Ing deficiencies were noted in th	e Fluvirin media fill si	mulations:	ventions that
occuri	dia fill simulations are not represed during asseptic filling process	ez sié liót évargaren	and consider the	
. simula	Itions.	EMPLOYE	E(S) NAME AND TITLE (Print or Type)	DATE IBSUED
SEE REVERSE OF THIS	O. Claunasure	Ometune Ometune	le O Osuncanmi, CSO y, Jennings, CSO wis, Ph.D. Regulatory Coordinator	6/10/03
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TO: Andy H. Sneddon, Head of Man	NACINIDO QUE DILECTOI PIAEIBAA.	Facility		-		
FIRM NAME	Gask	ill Road				
Evans Vaccines Limited CITY, STATE AND ZIP CODE		OF ESTABLISHMENT INSPEC				
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dated 9/9/02: General Fro Simulation Utilizing Sterile	Media Fills and/or Performan	ice Qualification Proto	ooi # PQP/0:	3 with	the sam	
numbers reported by different the	iverse event may be related to	the manufacturing pr	OCB22, ICI 47	(Stride)	<b>-</b> .	
haalthcare facilities.	ported for batch #E35732HA					
hagithcare facilities.	eponed on batch #E33922HA					
C) Forty-one adverse ev	ents reported on batch #E3340			1		
IOOP/0040/03 dated 5/19/03 for	the qualification of the freezer	eds used in the manufice currently in place).		de) fra Ivirin. (	ezer, Si (Protoco	anai 1) #
10) The following deficiencies W	ere noted in the 100% Fluvirin	finished vials visual in	rspections:			
A) The 100% visual inspace of the set the	paction and re-inspection of fin mpling plans and/or review of initial limits.	ished Fluvirin vials de historical data but bas	efects are not sed on			
conducted at the same.	nspections of finished Fluvirin accept/rejact rate of					
C) Critical and non-critic General Procedure for all vial defects are base	cal finished vials inspection de Performing Re-examination in d on the same reject/accept re seals.	fects are not defined I Manual and Semi Aut ate of <b>Semi</b> for, e.g., a	In SOP #INO tomatic Inspa appearance,	17.VI action. particl	es, droki	S1
D) There is no Quality of for defects that are per	Assurance control/verification : formed by manufacturing.					
TIME INC.	for the training of Fluvirin 100	% finish vials Inspecti	on personne	l is ind	complete	e, in Jeval n

20) SOP #IN018 dated 5/25/03 for the training of Fluvirin 100% finish vials inspection personnel is incomplete, in that it falled to include the length of training of personnel for finished Fluvirin vials defect inspections and the level of

-supervision of the trained personnel after training. OATE ISSUED 6/10/03 EMPLOYEE(S) NAME AND TITLE (Print or Type) REVERSE OF THIS PAGE

AND THE (Print or Type)

Omotunde O Osuntanmil, CSO

Robin Levis, Ph.D. Regulatory Coordinator

Jonathan McInnis, Biologist

FORM FDA 483 (4/03) PREVIOUS EDITION OBSOLETE (PAG MCMA AND (201) 43-1000 NF) INSPECTIONAL OBSERVATIONS

PASSES

PAGE 6 of 6

The observations of objectionable conditions and practices listed on the front of this form are reported:

- 1. Pursuant to Section 704(b) of the Federal Food, Drug and Cosmetic Act, or
- To assist firms inspected in complying with the Acts and regulations enforced by the Food and Drug Administration.

Section 704(b) of the Federal Food, Drug. and Cosmetic Act (21 USC 374(b)) provides:

"Upon completion of any such inspection of a factory, warehouse, consulting laboratory, or other establishment, and prior to leaving the premises, the officer or employee making the inspection shell give to the owner, operator, or agent in charge a report in writing setting forth any conditions or practices observed by him which, in his judgment, indicate that any food, drug, device, or cosmetic in such establishment (1) consists in whole or in part of any filthy, putrid, or decomposed substance, or (2) has been prepared, packed, or held under unsanitary conditions whereby it may have become contaminated with filth, or whereby it may have been rendered injurious to health. A copy of such report shall be sent promptly to the Secretary."

OCT-12-2004 11:17