		HEALTH AND HUMAN SERVICES DRUG ADMINISTRATION		at .
DISTRICT OFFICE ADDRESS AND PHONE NUMBER ORA/OE/DIVISION OF COMPLIANCE MANAGEMENT AND OPERATIONS 5600 FISHERS LANE, ROCKVILLE, MD 20857 USA TEL: (301) 827-0391/FAX: (301) 827-0342				
	OF INDIVIDUAL TO WHOM REPORT IS ISSUED		TOTOD	
	SNEDDON, VICE PRESIDENT OF MAN		ŒCIOR	
FIRM NAME	RM NAME STREET ADDRESS VANS VACCINES an affiliate of CHIRON CORPORATION GASKILL ROAD			
CITY, STATE AND		TYPE OF ESTABLISHMENT	NSPECTED	
LIVERPOOL L2		VACCINE MANUFAC		
REPRESENT A FINAL A IMPLEMENT, CORRECT OR SUBMIT THIS INFO	S OBSERVATIONS MADE BY THE FDA REPRESENTATIVE(S) DI AGENCY DETERMINATION REGARDING YOUR COMPLIANCE. TIVE ACTION IN RESPONSE TO AN OBSERVATION, YOU MAY RMATION TO FDA AT THE ADDRESS ABOVE. IF YOU HAVE AL ON OF YOUR FIRM (WE) OBSERVED: G Fluvirin Sterility Investigation #R/1	II- YOU HAVE AN OBJECTION REGARDING AN O DISCUSS THE OBJECTION OR ACTION WITH TH NY QUESTIONS, PLEASE CONTACT FDA AT THE	IE FDA REPRESENT PHONE NUMBER A	ATIVE(S) DURING THE INSPECTION
on N Sem deer and ■ LA asse	Fluvirin Sterility Failure Investigation (ay 17, 2004 as a corrective action (atia spp)) during April and May. The med that the furnigation "was succested that "it should be noted that there as a systement criteria for further batch prostigation conclusion is not supported the firm does not report that Grain the formulation areas after the Serratia spp. were also isolated there is no evidence that the firm and action levels in formulation The firm continued to experience organisms, including but not lime.	to increased levels of Grande area fumigated was the formation as confirmed by ongoing no confirmed isolates of the made: The firm further occasing as part of the Quant and information reported arm negative rods, oxidase refumigation, further Gramman and from May 20 and level exceeds and action level exceeds and action level exceeds are alert and action level exceeds a serial action level exceeds are a serial action level exceeds a seria	n negative of mulation so ing environ Serratia spot deems this lity Assurar is inaccurative, we negative roomed through	mental monitoring" p. within the Grade as "a key nce Process". This te, in that: are actually isolated ds identified as ed excursions of alert September 2004.
is no "sist The sam	arding retest performed on the ster o investigation into the mixed pass a ter" lots associated with the failed m original two failed lots uple size (normal test sample size is inal failed lots were also retested	and fail sterility test results nonovalents. were retested ■	for the ong	nal two lots and two
follo	_	equite of each set of	ials	
Lot#	Re-Test Date R	esuits of each set of v		
		set of vials passed steri sets of vials failed steril		
	22 Jul 04	sets of vials failed steril		,
	28 Jul 04	sets of vials failed steril	_	
SEE REVERSE OF THIS PAGE	EMPLOYEE(S) SIGNATURE FIGURE (S) SIGNATURE FIGURE (S) SIGNATURE FIGURE (PSC Med) 3 (4/03) PREVIOUS EDITION OBSOLETE (PSC Med)	EMPLOYEE(S) NAME AND Ometunde Q. Quantammi, CSQ Paula A. Troot, CSQ John D. Fintbohner, Ph.D. Suf David S. Cho, Ph.D., Microbiol Mark A. Elengold, Deputy Direct is Arts (301) 443-1890 EF) INSPECTIONAL	ow. Chemist ogist tor Oper., CBER	DATE ISSUED 16 October 2004 ONS PAGE 1 of 9 PAGES

	DEPARTMENT OF HEALTH FOOD AND DRUG			**		
DISTRICT OFFICE ADDRESS AND PHONE NUMBER			DATE(S) C	DATE(S) OF INSPECTION		
ORA/OE/DIVISION OF COMPLIANCE MANAGEMENT AND OPERATIONS		10/10-15/2004				
	SHERS LANE, ROCKVILLE, MD 20857 USA		FEINUMB	ER		
TEL: (3	TEL: (301) 827-0391/FAX: (301) 827-0342			:		
	TITLE OF INDIVIDUAL TO WHOM REPORT IS ISSUED NDY SNEDDON, VICE PRESIDENT OF MANUFAC	TIDING LIK SITE DIRE	CTOR	-		
TO: A		STREET ADDRESS				
	VACCINES an affiliate of CHIRON CORPORATION	GASKILL ROAD				
1	TE AND ZIP CODE	TYPE OF ESTABLISHMENT INSP	ECTED	:		
	OOL L24 9GR, UK	VACCINE MANUFACT				
REPRESENT IMPLEMENT, OR SUBMIT T	IENT LISTS OBSERVATIONS MADE BY THE FDA REPRESENTATIVE(S) DURING THE A FINAL AGENCY DETERMINATION REGARDING YOUR COMPLIANCE. IF YOU HAY CORRECTIVE ACTION IN RESPONSE TO AN OBSERVATION, YOU MAY DISCUSS T THIS INFORMATION TO FDA AT THE ADDRESS ABOVE. IF YOU HAVE ANY QUESTIVE INSPECTION OF YOUR FIRM (WE) OBSERVED:	VE AN OBJECTION REGARDING AN OBSI THE OBJECTION OR ACTION WITH THE F	ERVATION, ORT DA REPRESENT	HAVE IMPLEM (ATIVE(S) DU	RING THE INSPECTION	
	29 Jul 04 sets of sets of				:	
C)	SOP M198, Sterility Investigation Report (Ven Failure investigations in that, the SOP require accordance with the NCR SOP. This was not contaminated with Serratia spp. Regarding fill The 9 th failure occurred 2 August 2004. There immediate corrective action, or product impact the firm's SOP). One NCR (dated 28 Septem failures as well as monovalent blend failures as Failure Investigation dated 9 October 2004.	d a Non-Conformance done for the nine filled ed vials, the first failure is no documentation to was addressed at the liber 2004) was generate	Report (I vial lots cocurred o show the time of e ed to cov	NCR) be that we d on 8 J hat root ach fai er all ni	e initiated in re luly 2004. — cause, lure (as per ine sterility	
D)	No documentation of rationale in the Fluvirin S 9 th 2004 indicating that all three (3) monoblen failures are the B/Jiangsu strain.	Sterility Investigation #F d batches of the Fluvini	R/0198/10 n trivaler	0/04 da t strain:	ted October s with sterility	
E)	The investigation of the root cause analyses, recommendations did not include B/Jiangsu b monoblend batches implicated in the nine (9) bioburden level of 67cfu (specification of Serratia marcesens). (Was referenced in the	oulk batch Marches. The Fluvirin final filled vials cfu/ml) but failed sterility	first of the sterility f	ne three ailures	(3) with	
F)	The investigation did not specifically state that B/Jiangsu strain at the manufactured for year 2004 campaign with 17 level cfu/ml). This is higher bioburden the strains.	tion step in ■■ (83%) of 70-39,000,000cfu/ml bio	burden	oblend l levels p	batches er batch (alert	
G)	G) No documentation in the investigation report of the effect of keeping the monoblend/trivalent formulations at the second for up to the during processing was considered. Fluvirin finished vials are labeled for shipment at 2-8°C and Fluvirin monoblend/trivalent bulks are stored at temperature of C.					
H)	There is a lack of scientific data to support the testing plan.	e statistical rationale fo	r the rete	st samp	oling and	
SEI REVER OF TI PAG	HIS PAULICE FOR	EMPLOYEE(S) NAME AND TIT Omortunde Q. Osunsamil, CSO Paula A. Trost, CSO John D. Finkbohner, Ph.D. Supv. C David S. Cho, Ph.D., Microbiologist Mark A. Elengold, Deputy Thronton 3-1690 EF) INSPECTIONS	hemist l Oper., CBER		DATE ISSUED 15 October 2004 SE 2 of 9 PAGES	

	DEPARTMENT OF HEALTH FOOD AND DRUG		ý*		
ORA/OF 5600 FIS TEL: (30	DISTRICT OFFICE ADDRESS AND PHONE NUMBER ORA/OE/DIVISION OF COMPLIANCE MANAGEMENT AND OPERATIONS 5600 FISHERS LANE, ROCKVILLE, MD 20857 USA TEL: (301) 827-0391/FAX: (301) 827-0342		DATE(S) OF INSPECT 10/10-15/2004 FEI NUMBER	ION	
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FIRM NAME					
EVANS	VACCINES an affiliate of CHIRON CORPORATION	GASKILL ROAD			
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LIVERPO	OOL L24 9GR, UK ENTLISTS OBSERVATIONS MADE BY THE FDA REPRESENTATIVE(S) DURING THE	VACCINE MANUFACT		VATIONS AND DO NOT	
REPRESENT IMPLEMENT, OR SUBMIT TO DURING AN III 2) Reg Room place is as to o	A FINAL AGENCY DETERMINATION REGARDING YOUR COMPLIANCE. IF YOU HAVE ANY QUESTION OF YOUR FIRM (WE) OBSERVED: JACKS CHARLES TO AN OBSERVATION, YOU MAY DISCUSS TO AN OBSERVATION, YOU MAY DISCUSS TO AN OBSERVATION, YOU MAY DISCUSS THE INFORMATION TO FDA AT THE ADDRESS ABOVE. IF YOU HAVE ANY QUESTION OF YOUR FIRM (WE) OBSERVED: JACKS CHARLES TO ANY O	ormulation Room (File area where post filtra ips approximately income surrounding the Helps area where post filtra ips approximately income surrounding the Helps	DAREPRESENTATIVE(S) DUE ONE NUMBER AND ADDRESS tration) and Fom tion aseptic conn thes wide and are	nulation ections take e arranged so	
A)	The curtains are approximately from the between each strip. There is lack of assurance smoke videos do not provide assurance that t	ce that airflow would no	strips are bent t be disrupted.	eaving gaps `` \vailable	
В)	The room is arranged so that operators are reand vigorously manipulate equipment only 6 to demonstration of operations, one operator was approximately from the floor which is required by the design of the equipment to disconstructions.	o 12 inches inside the is observed making as below the bott	curtains. During eptic connections om of the curtain	a mock s s <u>an</u> d was	
C)	The equipment configuration within the Class the airflow stream sweeping towards the critic	environment is such al area where multiple	that operators naseptic connecti	nust crouch in ons are made	
D)	D) Available smoke studies do not demonstrate the ability to maintain integrity of laminar airflow within the critical area when operator is present. Furthermore, the operator moves from a Class environment into the Class environment on multiple occasions during aseptic operations				
involve encon enviro	ration occurs in Formulation Room and trivale e operators making aseptic connections at pre npass between in which operators onmental monitoring in virus formulation areas, mination during critical operations would be add	and post filtration sites are performing critical there is a lack of assur	 These operations Regarders 	ons routinely arding air	
A)	The firm does not routinely monitor active air active air sampling is tested using a L s of growth media (a	ample w <u>hich takes b</u> et	s are taking plac ween r sampling).	e. Viable for	
В)	Viable active air sampling that is performed in where most critical operations are occurring ladifferent locations at different times) near	out rather, the air samp	a is not performe ler is placed on t ss area.		
SE REVER OF TO PAG	E EMPLEYEE(S) SIGNATURE RSE HIS FULL OUT TO THE TOTAL OUT TO THE T	EMPLOYEE(S) NAME AND TIT Omotunde Q. Osunsanmi, CSO Paula A. Trost, CSO John D. Finkbohner, Ph.D. Supv. Q David S. Cho, Ph.D., Microbiologis Mark A. Elengold, Deputy Director	LE (<i>Print or Type</i>) Chemist st Oper., CBER	DATE ISSUED 15 October 2004	
FORM F	FDA 483 (4/03) PREVIOUS EDITION OBSOLETE (PSC Modia Arts (301) 44	WIGHTONIAL O	BSERVATIONS PAG	SE 3 of 9 PAGES	

	DEPARTMENT OF HEALTH FOOD AND DRUG			.4*
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TEI - /3	01) 827-0391/FAX: (301) 827-0342			
TED. (3	01) 027-0351/11111. (501) 027 00 12			
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EVANS	VACCINES an affiliate of CHIRON CORPORATION	GASKILL ROAD		
CITY, STA	TE AND ZIP CODE	TYPE OF ESTABLISHMENT INSP		
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REPRESENT	MENT LISTS OBSERVATIONS MADE BY THE FDA REPRESENTATIVE(S) DURING THE FA FINAL AGENCY DETERMINATION REGARDING YOUR COMPLIANCE. IF YOU HAY CORRECTIVE ACTION IN RESPONSE TO AN OBSERVATION, YOU MAY DISCUSS T THIS INFORMATION TO FDA AT THE ADDRESS ABOVE. IF YOU HAVE ANY QUESTI	VE AN OBJECTION REGARDING AN OBSI THE OBJECTION OR ACTION WITH THE FI	DA REPRESENT	TATIVE(S) DURING THE INSPECTION
DURING AN	INSPECTION OF YOUR FIRM (WE) OBSERVED: Settling plates are not placed in areas where to critical operations.	the most activity is occu	ırring and	d not in areas of
D)	There is a lack of assurance that the current s	e required to perform o	peration	\$
	Sampling is not routinely performed in the are	a of critical process at	he time	of critical process.
4) Re(garding Control of Bioburden in the Manufacturi	···		
A)	(60%) out of Fluvirin monoblend batch manufactured for year 2004 Fluvirin Campaig bioburden levels as high as 39,000,000cfu/ml	n were out of bioburder	tions of the	he trivalent batches vel of trib itu/ml with
В)	Out of Specification (OOS) batches of Fluvirir Caledonia were noted as a result of the high I 26 out of monoblend batches resulted in (alert level specification for US: Eu/ml). The used for USA Fluvirin market.	bioburden levels in Obs OOS results for endoto	ervation xin level	2A above and total of soft up to 5052 Eu/m
C)	Approximately 80% of all microorganisms' grofiltration, and trivalent formulation room excur	owth in the Fluvirin fillingsions were not identifie	g room, i d to the	monoblend aseptic genus level.
D)	Per Non-conformance Report #2004/1071/07 confirmed for Fluvirin A/Wyoming Master See Also, per M/2004/1029 dated March 15 th 2004 A/Wyoming Working Seed batch The monoblend batches that were later rejected.	ed batch and VV	orking So was also	eed patch
E)	Bioburden investigation is incomplete in that was directly investigated as a potential for confave direct contact with the egg product mixt	ntribution to bioburden	though p ed water	ourified water does r is used to c <u>lean</u>
	equipment, including the Centrifuge, the Centrifuge and			
	Machine which come into direct	contact with product.		
F)	Besides the nine (9) batches of Fluvirin that v R/0198/10/04 dated October 9 th 2004), additi also rejected due to environmental excursion	onal four (4) batches of	y failures finished	(Investigation # Fluvirin vials were
REVEI OF 1	EE EMPLOYEE(S) SIGNATURE RSE JULIAN ALTROST THIS FALLER ALTROST GE BANK S. CLAO	EMPLOYEE(S) NAME AND TIT Omotunde Q. Osunsanmi, CSO Paula A. Trost, CSO John D. Finkbohner, Ph.D. Supv. C David S. Cho, Ph.D., Microbiologis Mark A. Elengold, Deputy Director	hemist t Oper., CBER	15 October 2004
FORM	FDA 483 (4/03) PREVIOUS EDITION OBSOLETE (PSC Media Arts (301) 4	13-1000 EF) INSPECTIONAL OI	SERVAT	PAGE 4 OT 9 PAGES

DEPARTMENT OF HEALTH FOOD AND DRUG		æ ^r	
DISTRICT OFFICE ADDRESS AND PHONE NUMBER ORA/OE/DIVISION OF COMPLIANCE MANAGEMENT AND OPERATIONS 5600 FISHERS LANE, ROCKVILLE, MD 20857 USA TEL: (301) 827-0391/FAX: (301) 827-0342		DATE(S) OF INSPECT 10/10-15/2004 FEI NUMBER	TION
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT IS ISSUED TO: ANDY SNEDDON, VICE PRESIDENT OF MANUFAC	TURING, UK SITE DIRE	CTOR	
FIRM NAME	STREET ADDRESS		
EVANS VACCINES an affiliate of CHIRON CORPORATION	GASKILL ROAD		
CITY, STATE AND ZIP CODE	TYPE OF ESTABLISHMENT INSI		
LIVERPOOL L24 9GR, UK	VACCINE MANUFACTO		
THIS DOCUMENT LISTS OBSERVATIONS MADE BY THE FDA REPRESENTATIVE(S) DURING THE REPRESENT A FINAL AGENCY DETERMINATION REGARDING YOUR COMPLIANCE. IF YOU HAVE IMPLEMENT, CORRECTIVE ACTION IN RESPONSE TO AN OBSERVATION, YOU MAY DISCUSS TO RUBBINT THIS INFORMATION TO FDA AT THE ADDRESS ABOVE. IF YOU HAVE ANY QUESTIOURING AN INSPECTION OF YOUR FIRM (WE) OBSERVED: 1) Per Non-Conformance Report #2004/7 rejected due to growth of Micrococcus alert levels with microbial growths ider were also identified in the change of the conformance of the confor	vean objection regarding an objection or action with the Fi ons, PLEASE CONTACT FDA AT THE PH 1632 dated September spp on Fluvirin filling n atified as Gram positive ge room" and within the	9 th , 2004 lot eedle swab. In a cocci/Gram neg	was addition, two pative rods
filling room sterile corridor respectively 2) Per Non-Conformance Report #2004/ Staphylococcus spp growth was identi sample of one aseptic filling room ope aureus/Moraxella spp was detected in	1852 dated October 2 nd ified on Fluvirin filling no rator. Also alert level g the Table change roor	eedle swab and rowth of <i>Staphy</i> n".	on hand plate
3) Per Non-Conformance Report #2004/ microbial growth of gram positive cocc (Class Micrococcus spp were no rod oxidase negative and gram positive the changing room.	ci were noted in the gra oted on hand plate of or	de ⊒ aseptic filli ne operator. Gra	m negative
4) Per Non-Conformance Report #2004/ microbial action limits were reached by grade asseptic filling area (Class Brevibacillus brevis, Bacillus subtilis, lat vial in-feed on the	y two (2) Fluvirin filling	Operators worki	ing in the ion, growth of
G) Although individual investigations were conduexcursions, no formal overall investigation was preventive actions.	ucted into the following as conducted to assure	Fluvirin aseptic adequate corre	filling room ctive and
5) Failure to adequately address root causes during year 2003 has not been adequately corrected. For	failure investigations, n example the previous i	oted during the nspection obser	inspection of vation noted:
A) The most recent sterility failure Investigation : Fluvirin batches concluded that inadequate a cause. During the 2003 inspection, the firm w aseptic connection to reduce the possibility o adequate corrective action has been conduct	septic technique during /as cited for failure to e f contamination. There	aseptic connectivate the redu	tions was the ction in
SEE EMPLOYEE(S) SIGNATURE REVERSE OF THIS PAGE FORM FDA 483 (4/03) PREVIOUS EDITION OBSOLETE (PSC Media Arts (3/01) 4/10)	EMPLOYEE(S) NAME AND TIT Omotunde O. Osumsanmi, CSO Paula A. Trost, CSO John D. Finkbohner, Ph.D. Supv. C David S. Cho, Ph.D., Microbiologis Mark A. Elengold, Deputy Director 13-1000 EF) INSPECTIONAL O	themist t Oper., CBER	DATE ISSUED 15 October 2004 GE 5 of 9 PAGES

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		DEPARTMENT OF HEALTH FOOD AND DRUG		<i>5</i>	
DISTRI	ICT OF	FICE ADDRESS AND PHONE NUMBE	R	DATE(S) OF INSPECT	ION
ORA/O	E/DIVI	SION OF COMPLIANCE MANAGEMENT	CAND OPERATIONS	10/10-15/2004	
5600 FI	SHERS	LANE, ROCKVILLE, MD 20857 USA		FEINUMBER	
TEL: (3	01) 827	-0391/FAX: (301) 827-0342		:	
		INDIVIDUAL TO WHOM REPORT IS ISSUED	TIDDIC LIK CITE DIDE	СТОР	
TO: A	ANDY S	NEDDON, VICE PRESIDENT OF MANUFAC		CIOR	· · · · · · · · · · · · · · · · · · ·
FIRM NAM EVANS		NES an affiliate of CHIRON CORPORATION	STREET ADDRESS GASKILL ROAD		
CITY, STA	TE AND ZI	PCODE	TYPE OF ESTABLISHMENT INSI		
LIVERP	OOL L24	9GR, UK OBSERVATIONS MADE BY THE FDA REPRESENTATIVE(S) DURING TH	VACCINE MANUFACT		
OR SUBMIT	CORRECTION THIS INFORM INSPECTION Contr With h 9.66x "effect these	observations made by the Pokaresement (s) during the ency petermination regarding your compliance. If you have any questivation to for at the address above. If you have any questivation to for a the address above. If you have any questivation to for a time address above. If you have any questivation to for a failure investigations into bulk Fluingh bioburden levels is deficient, in that 10^6 cfu, $7.07x10^7$ cfu & $1.26x10^7$ cfu in your investigations has been opened to find lots. (Not corrected from previous inside during this inspection)	ivirin monoblend/lots at lots were noted with tote ear 2000/2001 and 200 the root causes of the	the thigh bioburder thigh bioburder thigh bioburder thigh bioburder thigh bioburder thigh levels of bi	step n volumes of ns and no oburden in
6) Re	garding	Aseptic Media Fills Simulation:	a*		
A)	that a	a fill simulations are not representative o occurred during aseptic filling processes ne media fill simulations. (Not corrected	are not evaluated and (considered for in	corporation
	filled &PQI for ur into a for Ro	a fills conducted as part of the sterility favials of Fluvirin batches and routine ase P/0146/02 failed to include the review armusual interventions that occurred during septic fill simulations per: SOP #SCP02 outine Monitoring of Aseptic Manufacturing Media Fills.	ptic media fill simulation nd evaluation of batch r noutine aseptic filling p g dated October 26 th 20	ns per protocol # ecords for syring processes for inc 003 titled: Gener	PQR/0142/04 es and vials orporation al Procedure
B)	fill /tri Fluvi	iencies were noted in the routine aseption valent aseptic formulation simulations, a rin nine (9) filled vials sterility investigations sentative of actual aseptic fill conditions	and trivalent media fill s on #R/0198/10/04. Ase	imulation investi	gation into
	1)	No Batch record reviews of previously	manufactured lots we	re conducted	
	2)	No documentation that interventions v	vere conducted during	the media fills	
	3)	The routine aseptic media fills for the interventions normally performed duri	monoblend and trivalering production.	nt stages do not	encompass all
	4)	No documentation that worst case ch fills simulations.	allenges were conducte	ed during the ase	eptic media ,
7) Re	egardin	g quality operations:			
	ÉE	EMPLOYEES) SIGNATURE	EMPLOYEE(S) NAME AND TO	TLE (Print or Type)	DATE ISSUED 15 October 2004
REVE	RSE THIS	Flydd a show	Omotunde O. Osunsanni, CSO Paula A. Trost, CSO John D. Finkbohner, Ph.D. Supv. (Chemist	15 October 2004

	DEPARTMENT OF HEALTH A	AND HUMAN SERVICES DMINISTRATION		
DISTRICT OFFICE ADDRESS AND PHONE NUMBER ORA/OE/DIVISION OF COMPLIANCE MANAGEMENT AND OPERATIONS 5600 FISHERS LANE, ROCKVILLE, MD 20857 USA TEL: (301) 827-0391/FAX: (301) 827-0342		DATE(S) OF INSPECTION 10/10-15/2004 FEI NUMBER	ON	
NAME AND	TITLE OF INDIVIDUAL TO WHOM REPORT IS ISSUED NDY SNEDDON, VICE PRESIDENT OF MANUFACTU	TRING LIK SITE DIREC	CTOR	
TO: A		STREET ADDRESS		
		GASKILL ROAD		
1	E AND ZIP CODE	TYPE OF ESTABLISHMENT INSP		
LIVERPO	OOL L24 9GR, UK	VACCINE MANUFACT		
REPRESENT IMPLEMENT, OR SUBMIT T DURING AN II	ENT USTS OBSERVATIONS MADE BY THE FDA REPRESENTATIVE(S) DURING THE IN A FINAL AGENCY DETERMINATION REGARDING YOUR COMPLIANCE. IF YOU HAVE CORRECTIVE ACTION IN RESPONSE TO AN OBSERVATION, YOU MAY DISCUSS THE HIS INFORMATION TO FDA AT THE ADDRESS ABOVE. IF YOU HAVE ANY QUESTION INSPECTION OF YOUR FIRM (WE) OBSERVED: Monovalent blend pools produced during the 20	E OBJECTION OR ACTION WITH THE FL IS, PLEASE CONTACT FDA AT THE PHO	DA REPRESENTATIVE(S) DUR ONE NUMBER AND ADDRESS	ING THE INSPECTION ABOVE.
A)	alert limit have been forward processed to final	product on multiple of multiple of mag	ccasions, even w initude. For proc	nen ess stream
	excursions of the alert limit that have occurred purification of desirable components may be consessed potential product quality impact in terms of the desired vaccine components, or introduct	ompleted, it is not clea ms of microbial metal	r tnat tne investiç polites, microbial	gation degradation
В)	In twenty-four (24) incidences during the 2004 inoculation that exceeded bioburden levels, i.e. inoculation of approximately manufacturing of Fluvirin Vaccine with high bio aware that the live virus inoculum contained high but allowed to continue through the Fluvirin manufacturing of Fluvirin Vaccine with high biogen and the Fluvirin Manufacturing of Fluvirin Vaccine with high biogen and the Fluvirin Manufacturing of Fluvirin Vaccine with high biogen and the Fluvirin Manufacturing of Fluvirin Vaccine with high biogen and the Fluvirin Manufacturing of Fluvirin Manufacturing of Fluvirin Vaccine with high biogen and the Fluvirin Manufacturing of Fluvirin Manufact	., callet of the control of the cont	etu sse ml). I his re were used in the tures. Although t	esuited in the he firm was
C)	Technical Report Reference Number R/0123/0 states on page 24, "During 2003, no adverse e occurrences from one batch." This indicates the by batch was performed as a quality control pro-	events investigations was nat no independent rev	уеге репоппеа а	ue w s
8) Re	garding zonal centrifugation operations:			
A)	There is no written procedure or cleaning valid assemblies, which are part of the flow path for	lation for the manual of the process stream.	deaning of the up	pper and lower
B)	The written procedure for cleaning of the main flushing of process stream contact parts for a describing the surfaces to be flushed.	body of the zonal cer period of	ntrifuge rotor des There are no di	cribes the irections
C)	Validation studies for the zonal centrifugation of assays but do not characterize egg primpurities.	operations characteriz roteins, or other speci	e material based fic process or pro	d on each
9) Re sterile	garding processing tanks utilized in the filtration, and aseptic formulation operations an	production area whe conducted:	ere purification o	operations,
SE REVEI OF 1 PA	RSE PAULATE THE THE THE THE THE THE THE THE THE T	EMPLOYEE(S) NAME AND TO Omotunde Q. Oeunsanmi, CSO Paula A. Trost, CSO John D. Finkbohner, Ph.D. Supv. O David S. Cho, Ph.D., Microbiologic Mark A. Elengold, Deputy Director	Chemist st Oper., CBER	DATE ISSUED 15 October 2004
FORM	FDA 483 (4/03) PREVIOUS EDITION OBSOLETE (PSC Modia Arib (301) 443	-1890 EF) INSPECTIONAL O	BSERVATIONS PAG	SE / OT 9 PAGES

	DEPARTMENT OF HEALTH FOOD AND DRUG		, ye	
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L	ANDY SNEDDON, VICE PRESIDENT OF MANUFAC	STREET ADDRESS	CIOK	
FIRM NAI		GASKILL ROAD	i	
	S VACCINES an affiliate of CHIRON CORPORATION	TYPE OF ESTABLISHMENT INSI	PECTED	
1	ATE AND ZIP CODE POOL L24 9GR, UK	VACCINE MANUFACTI		
THIS DOCL REPRESEN IMPLEMEN OR SUBMIT	UMENT LISTS OBSERVATIONS MADE BY THE FDA REPRESENTATIVE(S) DURING THE TY A FINAL AGENCY DETERMINATION REGARDING YOUR COMPLIANCE. IF YOU HAY IT, CORRECTIVE ACTION IN RESPONSE TO AN OBSERVATION, YOU MAY DISCUSS TO THIS INFORMATION TO FDA AT THE ADDRESS ABOVE. IF YOU HAVE ANY QUESTIN IN INSPECTION OF YOUR FIRM (WE) OBSERVED: Prior to August 2004, there was no periodic pi	VE AN OBJECTION REGARDING AN OBSI THE OBJECTION OR ACTION WITH THE F ONS, PLEASE CONTACT FDA AT THE PH	DA REPRESENTATIVE(S) D ONE NUMBER AND ADDRE	URING THE INSPECTION SS ABOVE.
^)	assessment of aspects potentially effecting ta sealing gaskets, valve assemblies, or sterile v valves and integrity of sterile vent filters have	nk integrity such as dar vent filter assemblies. [mage to sealing Difficulties with	surfaces,
B)	Tanks are usually double door passed throughowever, on some occasions, the vessels have preparation area and transferred via m	h the autoclave into the ve been single door pas ateñals airlock and wip	ssed back into t	ne vessei
C)	Documentation of sprayball coverage for proc studies or I/OQ studies for these processing t visual determination of cleanliness is non-spe to clean surfaces.	anks. In addition, the v	vritten documer	ntation for
D)	Cleaning validation for the CIP process for Ve of trivalent bulk influenza vaccine, did not include vessel. In addition, the study did not include transfer of monovalent blend pools into the m trivalent formulated bulk back into a sterilized	lude an assessment of swab sampling of the transition in the transition of the trans	sprayball cover ransfer lines us l for transfe <u>rri</u> ng	age for the ed in the
infor	Manufacturing instructions (batch production rec mation. For example, processing tanks are not to ion, it is not possible to consistently trace proces	traceable within the bat	ch production r	ecord. In
supp have	The specified replacement schedule (annual resorted by production history accumulated since Jaben used in the 2003 production campaign, as hange after initial annual installation is fouling of	January 2003. For exam nd 1988 in the 2004 ca	mple, sets	tated reason
12) F	Regarding equipment supporting manufacturing	operations in the Egg \	/irus Unit (EVU):
A)	There is no spray ball coverage cleaning study inactivation vessel, and inactivation vessel	,		
B)	There are no studies to determine the swab inactivation vessel			
REVI OF	SEE EMPLOYEE(S) SIGNATURE ERSE THIS AGE TO THE PROPERTY OF THE	EMPLOYEE(S) NAME AND TH Omotunde Q. Osunsanmi, CSO Paula A. Trost, CSO John D. Finkbohner, Ph. D. Supv. O David S. Cho, Ph.D., Microbiologie Mark A. Elengold, Deputy Director	Chemist st Oper., CBER	DATE ISSUED 15 October 2004
FORM	FDA 483 (4/03) PREVIOUS EDITION OBSOLETE (PSC Media Arta (301) 4	(3-1000 EF) INSPECTIONAL O	BSEKVATIONS P	ACE & OI & PAGES

DEPARTMENT OF HEALTH FOOD AND DRUG A	AND HUMAN SERVICES DMINISTRATION	./*	
DISTRICT OFFICE ADDRESS AND PHONE NUMBER ORA/OE/DIVISION OF COMPLIANCE MANAGEMENT AND OPERATIONS 5600 FISHERS LANE, RÖCKVILLE, MD 20857 USA TEL: (301) 827-0391/FAX: (301) 827-0342			
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT IS ISSUED TO: ANDY SNEDDON, VICE PRESIDENT OF MANUFACT	URING, UK SITE DIRE	CTOR	
FRM NAME	STREET ADDRESS		
EVANS VACCINES an affiliate of CHIRON CORPORATION	GASKILL ROAD		
CITY, STATE AND ZIP CODE	TYPE OF ESTABLISHMENT INS		
LIVERPOOL L24 9GR, UK THIS DOCUMENT LISTS OBSERVATIONS MADE BY THE FDA REPRESENTATIVE(S) DURING THE	VACCINE MANUFACT	V ARE INSPECTIONAL OBSERV	/ATIONS, AND DO NOT
THIS DOCUMENT LISTS OBSERVATIONS MADE BY THE FOA REPRESENT ATTIVE(S) DURING THE REPRESENT A FINAL AGENCY DETERMINATION RECARDING YOUR COMPLIANCE. IF YOU HAVE IMPLEMENT, CORRECTIVE ACTION IN RESPONSE TO AN OBSERVATION, YOU MAY DISCUSS TO CREDING AN INSPECTION OF YOUR FIRM (WE) OBSERVED: 13) There is no documentation that a manufacturing of adverse event reports received for twenty-two batches campaign where one or more criteria for manufacturing (Section 7.7), SOP MPD-024 (Section 7.5), and (Section 7.5), and (Section 7.5).	HE OBJECTION OR ACTION WITH THE I DNS, PLEASE CONTACT FOA AT THE PA QUALITY REVIEW WAS CON S Of Fluvirin manufactu	DA REPRESENTATIVE(S) DUR HONE NUMBER AND ADDRESS DUCTED IN a timely LITED IN THE 2003/2 THE DET SOP MPD	manner on 1004
For example:	ø.		
Seven adverse event reports received for inje	ction site type reactior	s to batch numbe	er 765484
B) Ten adverse event reports received for injecti			
C) Five adverse event reports received for inject	ion site type reactions	to batch number	766053
(Incomplete corrective action to the previous ins	pection of 2003)		
14) Regarding product equipment compatibility study	r.		
The Tubing used throughout centrifuged, formulated and finished product for filling Residue with result of 1327mg per test result has been conducted and no justification/rationale is corrective action from previous inspection of 200	g was out specification t. No investigation, co provided for the lack o	rective and preve	entive action
, , , , , , , , , , , , , , , , , , , ,	,		DATE ISSUED
SEE REVERSE OF THIS PAGE FORM FDA 483 (4/03) PREVIOUS EDITION OBSOLETE (PSC Media Arts (301))	EMPLOYEE(S) NAME AND Omotunde Q. Osuneanmi, CSO Paula A. Trost, CSO John D. Finkbohner, Ph.D. Supu David S. Cho, Ph.D., Microbiolo Mark A. Elengold, Deputy Direct M3-1090 EF) INSPECTIONAL	r. Chemist olst	15 October 2004

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
- 2. 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 shall 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."