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	DISTRICT ADDRESS AND PHONE NUMBER	
A SEDVICES	466 Fernandez Juncos Avenue San Juan, Puerto Rico 00901-3223	
DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE	Tel. (787) 729-6854	Ĭ
FOOD AND DRUG ADMINISTRATION	1ci. (161) 123-0051	
	PERIOD DE INSPECTION C.F. NUMBER	
NAME OF INDIVIDUAL TO WHOM REPORT ISSUED	PERIOD OF INSPECTION C.F. NUMBER 5/1/01-6/13/01 2650149	
·). ———————————————————————————————————	3/1/01-0/10/0	
TITLE OF INDIVIDUAL.	TYPE ESTABLISHMENT INSPECTED Drug Manufacturer	
General Manager	NAME OF FIRM, BRANCH OR UNIT INSPECTED	
EIDSA NAME	Same	
Schering-Plough Products, L.L.C.	STREET ADDRESS OF PREMISES INSPECTED	
STREET ADDRESS	Same	
Road 686 Km 0.5	CITY AND STATE (Zip Code)	
CITY AND STATE (Zip Code) Manati, Puerto Rico 00674-0486	Same	
DURING AN INSPECTION OF YOUR FIRM WEI OBSERVED:	the controls	
DURING AN INSPECTION OF YOUR FIRM WEI OBSERVED: Your firm's Quality Assurance unit lacks sufficient respon	asibility and authority to exercise the controls	
Your firm's Quality Assurance unit lacks sufficient response necessary to assure that consistent and reproducible manufactures assure that consistent and reproducible manufactures.	acturing processes and conducts are conductant	
and followed; that appropriate product specifications a	and followed and that appropriate corrective	
appropriate testing methods and procedures are established	that to meet established specifications occur for	
actions are taken when process deviations of latitudes of process	This also failed to assure that accurate	
drug products manufactured by your firm. The Quanty As and complete records of production and control activities we are complete records of production and control activities.	vere prepared and maintained appropriately and	
and complete records of production and control activities we that timely, accurate and complete reports were submitted	to FDA when appropriate. Some examples of	
that timely, accurate and complete reports were submitted the deficiencies which have not been adequately controlled	ed by your Quality Assurance unit include the	
following		1
10110.mmg		
Data Accuracy and Integrity		
	a testing and control inform	ation to assure that oral
1. Your firm does not have an adequate system for verifying	ng the accuracy of production and conduct another	assure that relevant or
I and written information is consistent and control.	The following are	evanuales of Incorrect
and written information is consistent and correct. In addrequired information is submitted to FDA in a complete, incomplete, inconsistent and untimely information obtain	accurate and timely institute. The rout firm's co	mmunications with the
incomplete, inconsistent and ununcly information occurs	ed during this thispection and in your	
Food & Drug Administration:		
a) During this inspection, your personnel repeatedly	informed FDA investigators that investigation	on into the source of
a) During this inspection, your personnel repeatedly benzophenone impurity found in Nasonex Nasal Spr	ay included evaluation of stability samples for l	ots which were already
the manufacture interior tourist in independent course of the		vour memise is mai un
distributed and within expiration date and his billion from the printed label.	through the bottle into the product. Your I	personnel intornicu me
distributed and within expiration date and also included testing of unlabeled bottles of the product. Your personnel informed the benzophenone is leaching from the printed label, through the bottle into the product. Your personnel informed the benzophenone is leaching from the printed label, through the bottle into the product. Your personnel informed the benzophenone is leaching from the stability samples and the unlabeled bottles found no benzophenone in these samples investigators that test results for the stability samples and the unlabeled bottles found no benzophenone in these samples. When review of the test data was requested to determine the stability intervals tested and the methods used for testing, your When review of the test data was requested to determine the stability intervals tested and the methods used for testing, your		
		T2 (70C/T 101 100/m-P) 1
margaria) renorted that the testing that he vot		•
	and the state of t	ne Soluspan Suspension
b) Investigations into out-of-guideline (OOG) results for Report that the guideline limit for found at a RRT formula of a Product Quality.	r degradation products and miparites at	i that for
Report that the guideline limit for	Harrover an internal memo dated 3/5/99 indi	cates that the analytics
of the state of th	nowever, an internal	at a RRT
		deline specification or
guidelines based on a levice of indicates the		
		indicates that the activ
c) The investigation for Celestone Soluspan Suspensi	ion under MRB 20-010071 for lot # 1-AHU-2	records that it consists
c) The investigation for Celestone Soluspan Suspensi ingredient with an OOS assay result was Betamethan	sone dipropionate. The formula for this product	IDATE ISSUED
ingredient with an OOS assay 100411	EMPLOYEE(S) NAME AND TITLE (Print or Type) Carmelo Rosa, Investigator	6/13/01
(LAsans/3-7028	Jose F. Pedró, Investigator	
SEE REVERSE OF	lleana Barreto-Pettit, Investigator	
THIS PAGE	Ivis L. Negron, Chemist	
Trio Villegom	INSPECTIONAL OBSERVATIONS	PAGE 1 OF 25 PAGE
FORM FDA 483 (5/85) PREVIOUS EDITION MAY BE USED	More and a second	

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DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE FOOD AND DRUG ADMINISTRATION	DISTRICT ADDRESS AND P 466 Fernandez Juncos San Juan, Puerto Rico Tel. (787) 729-6854	Avenue
TO: 2/240.00 ZA VAS	PERIOD OF INSPECTION 5/1/01-6/13/01	C.F. NUMBER 2650149
TO: XICADDO CAYAS TITLE OF INDIVIOUAL GENERAL MANAGED	TYPE ESTABLISHMENT INS Drug Manufacturer	
FIRM NAME Schering-Plough Products, L.L.C.	NAME OF FIRM, BRANCH C Same	
SCHEIMIGH ROUGH FOR STREET ADDRESS Road 686 Km 0.5	STREET ADDRESS OF PRI Same	
CITY AND STATE (Zip Code) Manati, Puerto Rico 00674-0486	CITY AND STATE (Zip Code Same	
	nethasone sodium buosp.	liato.

the active ingredients of betamethasone acetate and betamethasone sodium phosphate.

- d) Laboratory Investigation #01-F2-03 for Celestone Soluspan Suspension batches 0-AHU-55 & 56 indicates that the day of the variance was 2/02/01. However, the investigation report was prepared and signed by two different persons on 2/05/00.
- e) Laboratory investigation 01-F2-15 indicates on the front page that the investigation is related to batches 1-AHU-5 and 1-AHU-6. On this same page it discusses the out of guideline results for lots 1-AHU-3 and 1- AHU-4. The second page lists the results for lots 1-AHU-5 and 1-AHU-6.
- You failed to maintain a photocopy/photo or any other suitable evidence that demonstrates that the TLC test for determination of impurity/degradants is being performed. Instead, a drawing of the alleged detected spots is made by the analyst and included in the record. There is no way to verify if the correct determination was made by the analyst. Examples are shown in the TLC test for:
 - (1) Celestone lots 0-AHU-52, 0-AHU-55, and 0-AHU-56
 - (2) Garamycin Cream lot 9-HB-1
- g) You failed to have adequate security controls for your HPLC systems because your system, once accessed by one employee is left opened and available for other personnel to gain access to the original employee's analytical test reports. Analytical data generated by one employee can be reprocessed by another employee without the knowledge or consent of the original employee. For example, the analytical data generated for Celestone Soluspan Suspension, lots # 0-AHU-55 and 0-AHU-56 by one employee was invalidated and reprocessed by a second employee. The original employee denied knowledge of the reprocessing of the data. The computer record listed the original employee as sole owner of the record and did not indicate that any other individual entered or changed the record. There is no record to determine the identity of the individual who reprocessed the data.
- h) Your failed to inform the FDA of a 4th impurity spot obtained in the ID test performed on Gentamycin Sulfate lots # 990711431, 990912196, 990912197, 990912198 and #990912199 using the TLC method or that an additional 5th spot was also found in lot #990912199. Although these lots were rejected, lots #990410223, 990410225, 990410226 and 990610830 that also had the 4th spot were approved for use in manufacturing veterinary drug products. Even though you consistently found this 4th spot, you informed FDA of your intention to change your ID method from TLC to an HPLC method and did not notify the FDA about these additional spots. In addition, after making a commitment to FDA to identify and conduct toxicity testing on the substance found in the 4th spot, you selected batches 990610815, 990610902 and 990610904 which had less than 2% of the 4th spot for toxicity testing by an external laboratory and did not submit the batches with the 4th spot at 3% for toxicity testing. You still have not investigated the presence of the 5th spot.

DATE ISSUED EMPLOYEE(S) NAME AND TITLE (Print or Type) 6/13/01 Carmelo Rosa, Investigator Jose F. Pedró, Investigator SEE REVERSE OF Ileana Barreto-Pettit, Investigator THIS PAGE Ivis L. Negrón, Chemist PAGE 2 OF 25 PAGES INSPECTIONAL OBSERVATIONS

FORM FDA 483 (5/85)

		DISTRICT ADDRESS AND 466 Fernandez Junco	PHONE NUMBER S Avenue	
DEPARTMENT OF HEALTH AND HUMAN SERVICES		San Juan, Puerto Rico	00901-3223	1
	BLIC HEALTH SERVICE ND DRUG ADMINISTRATION	Tel. (787) 729-6854		l
NAME OF IND	IVIDUAL TO WHOM REPORT ISSUED	PERIOD OF INSPECTION 5/1/01-6/13/01	C.F. NUMBER 2650149	1
10: KICARIM	3 LAUK			
TITLE OF INDIVIDUAL	M - S	TYPE ESTABLISHMENT II Drug Manufacturer	NSPECTED	i i
FIRM NAME	Manuelle	NAME OF FIRM, BRANCH	OR UNIT INSPECTED	
Schering-Plough Produc	ts, L.L.C.	Same		
STREET ADDRESS		STREET ADDRESS OF PE	REMISES INSPECTED	·
Road 686 Km 0.5		CITY AND STATE (Zip Cod	2)	
CITY AND STATE (Zip Code) Manati, Puerto Rico 006	574-0486	Same	*	1
	nform the FDA about a "fourth spot" fou	and in the TLC ID test for	or Garamycin Cream, lot 9-HB-1	, which is on
the market and	within expiration date (10/02). Laborato	ory investigation 99-F2-2	was listed in the previous FDA-	-483 (2/01) as
heina inadeaus	te for back of corroborating evidence the	hat the fourth spot was	characteristic of the product as	stated in the
conclusion of v	our investigation into this problem. You	n have not submitted a F	eld Alert Report notifying the F	DA about this
confirmed four	th spot in this marketed lot.		-	i
			anti i a a anti i a	777 A 141 S
j) You failed to s	submit a NDA Field Alert (NDA 20-718	3) for lots 9-SBH-A-1, 9	-SBH-A-Z, 9-SBH-A-3, and 0-F	WB-A-141 of
Integrilin Injec	tions .75 mg/ml and 2 mg/ml that failed	the stability for the impu	rities Asserting and/ord	
at 6 or 18 mont	ths 25 °C or 30 °C interval.		•	
V 2 142 1 T23	eld Alert Report (FAR) to FDA, dated 5	(/10/01 row included an	attachment of an internal memo	dated 5/9/01.
in an initial Fi	at following replacement of a gasket in t	Ma filling machine for C	elestone Soluspan Suspension, no	further black
which stated to	ed. This memo was the only information	included in the FAR co	ncerning excessive amounts of re	iccted vials of
Celestone Solu	ispan Suspension due to visible particles	s. In an internal record	of a telephone contact to FDA,	dated 5/24/01,
you record the	at you reported to CDER that, after rep	placement of the gasket	on the filling machine, no add	litional lots of
Celestone Solv	venan Suspension had excessive reject	rates for visible particular	ilates. Our review of record	ds during this
inenection four	nd that the pasket in question was replace	ed after the manufacture	of lot 0-AHU-52 of the product.	The following
lote of this pro	which manufactured after lot 0-AHU-52	had OOS reports due to	excessive levels of visible parts	cies, including
black particles	: lots # 0-AHU-54 and 0-AHU-56. Lots	#1-AHU-7 and 1-AHU-1	s, manufactured in year 2001 also	o resumed with
black specks a	nd metallic particles.			
	J W VI	that is an attachment en	titled "Celestone Solusnan Sust	ension (AHU)
k) In the same F	k) In the same FAR listed in k) above, you also stated that in an attachment entitled "Celestone Soluspan Suspension (AHU) Batch Segregation Protocol" that lot 1-AHU-8 passed the content uniformity test. You sent another copy of the same			
J	unining the come information to FDA/Sa	an Insan District with a let	ter dated 3/1 //UL. Review of you	m OO3 reborn
and inspections	ions found that lot # 1-AHIJ-8 of this to	roduct also had OOS res	ults for content uniformity. The	s oughts occ
	malidated without adequate instification	and special test reducst	Mas urage to embbout enchanger	f Of the for the
results were invalidated without adequate justification and special test request was made to support disposition of the lot. In your record of the telephone conference with FDA/CDER mentioned in 2 above, dated 5/24/01, you do not indicate that this				
information w	as reported to FDA/CDER.	Jin	6 15 01	
		000	thook amonds over # OOS Int	horstory recults
 During the per 	riod from January 1999 to November 20 roducts and stability samples. During this	DUU, your OUS results lo	one FAR was submitted to FDA	concerning the
	at any and any and appointed North and any any	mies of i il in tenulis will	II PIIOGRA THAC ICOMING TIT I I III	
		UN-4 (40 MANTOS BY 1771)	I PRETINAL BUILDING ASSOCIA CATACAL SAN	PARTORITOR I
specification :	limits (Inv. 99-F2-24); and (3) Elocon o	ointment, lot 9-UHK-409	(6 months at 35°C) Mometasor	ne furoate assay
below specific	cation (Inv.00-F4-017).			
	EMPLOTEERS CONATURE	EMPLOYEE(6) NA	ME AND TITLE (Print or Type)	DATE ISSUED
	Correspond	Carmelo Rosa,	Investigator	6/13/01
SEE REVERSE OF	The Contract of the Contract o	Jose F. Pedró,	Investigator	
THIS PAGE Ileana Barreto-Pettit, Investigator Ivis L. Negrón, Chemist		}		
1	the offerm			3E 3 OF 25 PAGES
FORM FDA 483 (5/85)	PREVIOUS EDITION MAY BE USED	INSPECTIONA	OBSERVATIONS PAG	

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	DISTRICT ADDRESS AND PHONE 466 Fernandez Juncos Aver	•
DEPARTMENT OF HEALTH AND HUMAN SERVICES	San Juan, Puerto Rico 0090	
PUBLIC HEALTH SERVICE	Tel. (787) 729-6854	
FOOD AND DRUG ADMINISTRATION		
NAME OF INDIVIDUAL TO WHOM REPORT ISSUED	PERIOD OF INSPECTION C.F.	*UMBER
TALLES	5/1/01-6/13/01 265)149
TITLE OF INDIAPUAL	TYPE ESTABLISHMENT INSPECT	EO
GENERAL MANAGER	Drug Manufacturer	
FIRM NAME Schering-Plough Products, L.L.C.	NAME OF FIRM, BRANCH OR UN Same	TINSPECTED
STREET ADDRESS Road 686 Km 0.5	STREET ADDRESS OF PREMISE Same	INSPECTED
CITY AND STATE (Zip Code)	CITY AND STATE (Zip Code)	
Manati, Puerto Rico 00674-0486	Same	
Suspension lot 1-AHU-8 had also resulted with unifor weighting error of the analyst and not that a normal volvalidated process for Celestone Soluspan Suspension using Process Validation	turne fill variability may have	coccurred due to that you don't have a
2. There is insufficient evidence to assure that the curren consistently produce a product meeting its predetermined specinspection that ended on 2/16/01 for inadequate or lack of value. a) Celestone Soluspan Suspension.	rifications. In addition, none idation have been revalidated.	of the products cited during the previous
(1) In February of 1995, you performed studies to determine the optimum number of vials which should be removed at critical time points (start-up and after stoppages of 30 minutes or more) during the filling operation to prevent solution homogeneity problems. These studies were performed using a filling machine and concluded that the optimum number of vials to be removed at these critical time points was fivials. Although the studies were completed in Fabricary 1995, the filling procedure, # 645.91, was not prepared until was 1996. In July 1996, the transfelling machine was replaced with all the filling machine. As a result of an MRB # 97-000167 it was determined that the optimum number of vials to be removed at the critical time points for the new machine was and although a validation protocol was prepared to validate this new equipment Project PS96-42), the results of the studies were never reported in a summary report and the validation protocol was never executed. Procedure # 645.91.01 was never changed to reflect the necessary changes required by the new filling machine, although the title of the document was changed to identify that it was a procedure for the machine rather than for the machine full transfer you fail, to have a complete validation of the machine rather than for the machine full transfer you fail, to have a complete validation of the machine rather than for the machine full transfer you fail the critical time points in the filling operation, all batch production records reviewed during this inspection for lots manufactured between November		
procedure for the machine rather than for the Validation with the current batch	ough the title of the document machine, furthermo	is never changed to reflect the necessary it was changed to identify that it was a received for have a complete that actual procession curvent of avials at the critical time points in the
procedure for the machine rather than for the Validation with the current batch (2) Although the procedure mentioned above continue filling operation, all batch production records revise 1996 and November 2000 showed that the writte (3) In November 2000, you recognized that the written of the continue of the continu	d to instruct the removal of the decime and the contract the removal of the removal at the removal time are filling procedure was not	it was changed to reflect the necessary it was changed to identify that it was a complete you fail to have a complete while actual process (curvery) will be at the critical time points in the rolots manufactured between November points during the filling operation.
procedure for the water machine rather than for the Validation with the content batch. (2) Although the procedure mentioned above continue filling operation, all batch production records revise 1996 and November 2000 showed that wish will written procedure, including removing of only of the lots manufactured after November 2000.	d to instruct the removal of wed during this inspection for removed at the critical time in filling procedure was not ials at the critical time points using the written procedure	it was changed to reflect the necessary it was changed to identify that it was a you fail to have a complete while actual process (curvent) will be actually
(2) Although the procedure mentioned above continue filling operation, all batch production records revise 1996 and November 2000 showed that the written procedure, including removing of only of lots manufactured after November 2000 has failures	d to instruct the removal of the deciment and to instruct the removal of the removal at the critical time and filling procedure was not als at the critical time points using the written procedure determined that the unwritter determined that the unwritter	it was changed to reflect the necessary it was changed to identify that it was a you fail to have a complete vials at the critical time points in the roles manufactured between November points during the filling operation. being followed and began to follow the during filling of new lots of the product, two had OOS results for suspension and unvalidated procedure for the
(2) Although the procedure mentioned above continue filling operation, all batch production records revise 1996 and November 2000 showed that the written procedure, including removing of only of lots manufactured after November 2000 has failures	d to instruct the removal of wed during this inspection for removed at the critical time in filling procedure was not ials at the critical time determined that the unwritter instead of 72 vials should be re-	it was changed to reflect the necessary it was changed to identify that it was a you fail to have a complete vials at the critical time points in the or lots manufactured between November points during the filling operation. being followed and began to follow the during filling of new lots of the product, two had OOS results for suspension and unvalidated procedure for the emoved at the critical time points and you
procedure for the machine rather than for the Validation with the current bareh. (2) Although the procedure mentioned above continue filling operation, all batch production records revise 1996 and November 2000 showed that vials were written procedure, including removing of only of lots manufactured after November 2000 homogeneity. Your investigation into these failures filling machine from 1996 indicated that 200 vials, in the procedure of th	d to instruct the removal of wed during this inspection for removed at the critical time in filling procedure was not ials at the critical time determined that the unwritter nstead of 72 vials should be removed to the control of the critical time points using the written procedure determined that the unwritter nstead of 72 vials should be removed.	as never changed to reflect the necessary it was changed to identify that it was a you fail to have a complete actual process (current). Avials at the critical time points in the roles manufactured between November points during the filling operation. being followed and began to follow the during filling of new lots of the product, two had OOS results for suspension and unvalidated procedure for the emoved at the critical time points and you title (Printer Type) DATE ISSUED
(2) Although the procedure mentioned above continue filling operation, all batch production records revise 1996 and November 2000 showed that wisls were written procedure, including removing of only Of lots manufactured after November 2000 homogeneity. Your investigation into these failures filling machine from 1996 indicated that 200 vials, in the content of the	d to instruct the removal of wed during this inspection for removed at the critical time in filling procedure was not ials at the critical time determined that the unwritter instead of 72 vials should be removed to the control of the control of the critical time points using the written procedure determined that the unwritter instead of 72 vials should be removed. [EMPLOYEE(S) NAME AND Carmelo Rosa, Investigation of the control of the co	it was changed to reflect the necessary it was changed to identify that it was a you fail to have a complete vials at the critical time points in the roles manufactured between November points during the filling operation. being followed and began to follow the during filling of new lots of the product, two had OOS results for suspension and unvalidated procedure for the emoved at the critical time points and you move the critical time points and you get the critical time points are critical time points and you get the critical time points are critical time points and you get the critical time points are critical time points and you get the critical time points are c
procedure for the machine rather than for the Validation with the current barch. (2) Although the procedure mentioned above continue filling operation, all batch production records revise 1996 and November 2000 showed that vials were visited by the written procedure, including removing of only of lots manufactured after November 2000 homogeneity. Your investigation into these failures filling machine from 1996 indicated that 200 vials, in the procedure of the	d to instruct the removal of wed during this inspection for removed at the critical time in filling procedure was not ials at the critical time determined that the unwritter instead of 72 vials should be removed at the critical time points using the written procedure determined that the unwritter instead of 72 vials should be removed to the control of the control	it was changed to reflect the necessary it was changed to identify that it was a you fail to have a complete vials at the critical time points in the roles manufactured between November points during the filling operation. being followed and began to follow the during filling of new lots of the product, two had OOS results for suspension and unvalidated procedure for the moved at the critical time points and you moved to the critical time points and you gator
(2) Although the procedure mentioned above continue filling operation, all batch production records revise 1996 and November 2000 showed that wisls were written procedure, including removing of only Of lots manufactured after November 2000 homogeneity. Your investigation into these failures filling machine from 1996 indicated that 200 vials, in the content of the	d to instruct the removal of wed during this inspection for removed at the critical time in filling procedure was not ials at the critical time determined that the unwritter instead of 72 vials should be removed to the control of the control of the critical time points using the written procedure determined that the unwritter instead of 72 vials should be removed. [EMPLOYEE(S) NAME AND Carmelo Rosa, Investigation of the control of the co	it was changed to reflect the necessary it was changed to identify that it was a you fail to have a complete vials at the critical time points in the roles manufactured between November points during the filling operation. being followed and began to follow the during filling of new lots of the product, two had OOS results for suspension and unvalidated procedure for the emoved at the critical time points and you mile (Print or Type) gator (6/13/01)

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DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE FOOD AND DRUG ADMINISTRATION	DISTRICT ADDRESS AND PHONE NUMBER 466 Fernandez Juncos Avenuc San Juan, Puerto Rico 00901-3223 Tel. (787) 729-6854	
NAME OF INDIVIDUAL TO WHOM REPORT ISSUED	PERIOD OF INSPECTION C.F. NUMBER 2650149	
TITLE OF INDIVIDUAL	TYPE ESTABLISHMENT INSPECTED Drug Manufacturer	
FIRM NAME Schering-Plough Products, L.L.C.	NAME OF FIRM, BRANCH OR UNIT INSPECTED SBITTLE	
STREET ADDRESS Road 686 Km 0.5	STREET ADDRESS OF PREMISES INSPECTED Same	
CITY AND STATE (Zip Code) Manati, Puerto Rico 00674-0486	CITY AND STATE (Zip Code) Same	
again began to remove visits at critical time point (4) In order to verify that visits was the optimum many april 2001, you conducted a "validation exercise"		R machine, in was the correct
(6) Lot 0-AHU-13 failed to meet the Benzalkonium Cl triplicate confirmed the OOS results with values o passing results and the batch was released.	is for solution homogeneity were obtained for some loss aloride assay specification on 5/19/00 with results of 84 f 76.3%, 77.7% and 76.4%. Additional samples were	.85%. A retest in tested obtaining
rejection rates due to visible particles. Although December 2000, the corrective actions recommend resolve the problem. Lots # 1-AHU-2, 1-AHU-7, were implemented, also had excessive rejection le to determine the source of the particles in the five	through 2001. —#—Lots manufactured during this pend investigation into the problem was conducted from D and implemented as a result of the investigation were 1-AHU-8, 1-AHU-11 and 1-AHU-12, manufactured after the corrective actions were implicated after the corrective actions were implicated after the corrective actions were implicated.	ecember 1999 to e not sufficient t er the corrections has been initiated emented.
lots, the corrective action was to discontinue mo they were process related impurities and would provided during the inspection to support this deci	as a relative retention time (RRI) of and for which an normal values of these impurities were found in the nitoring for them in finished product samples with the monitored only during the drug substance testing, sion is inadequate for the following reasons:	h you do not have above mentioned explanation that The information
substance stability program. There is no explanation for the increase in the le There is no data to support the conclusion that the drug substance.	mpurities/degradants are currently being monitored as payers of these impurities in these lots of finished product both impurities in the finished product are the same is many of the finished product lots with out-of-guidelized in the finished product was higher than the amount product lots.	t. inpurities found ir ie results for these
SEE REVERSE OF THIS PAGE FORM FDA 483 (5/85) PREVIOUS EDITION MAY BE USED	EMPLOYEE(S) NAME AND TITLE (Print or Type) Carmelo Rosa, Investigator Jose F. Pedró, Investigator Ileana Barreto-Pettit, Investigator Ivis L. Negrón, Chemist	DAYE (85UED 6/13/01 PAGE 5 OF 25 PAGES

FORM FDA 483 (5/85)

DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE FOOD AND DRUG ADMINISTRATION	OBTRICT ADDRESS AND PHONE NUMBER 466 Fernandez Juncos Avenue San Juan, Puerto Rico 00901-3223 Tel. (787) 729-6854
NAME OF INDIVIDUAL TO WHOM REPORT ISSUED TO: PICARDO DAYAS	PERIOD OF INSPECTION C.F. NUMBER 2650149
TITLE GENDIVIOUAL General Manager	TYPE ESTABLISHMENT INSPECTED Drug Manufacturer
FIRM NAME Schering-Plough Products, L.L.C.	NAME OF FIRM, BRANCH OR UNIT INSPECTED Same
STREET ADDRESS Road 686 Km 0.5	STREET ADDRESS OF PREMISES INSPECTED Same
CITY AND STATE (Zip Code) Manati, Puerto Rico 00674-0486	CITY AND STATÉ (Zip Code) Same

For example, Betamethasone acetate sterile powder batch 00I04-12 BE-Q-00-AFZA-12 had a result of "Not detected" for 7. This drug substance was used in lots 1-AHU-1 thru 1-AHU-5 which resulted with impurity values

Lot 1-AHU-1 = 0.127% through 0.135% Lot 1-AHU-2 = 0.145% through 0.182% Lot 1-AHU-3 = 0.157% through 0.164% Lot 1-AHU-4= 0.155% through 0.158% Lot 1-AHU-5= 0.155% through 0.175%

of:

Betamethasone acetate sterile powder lot # 00118-14 - BE-Q-00-AZFA-14 also had a result of "Not Detected" for the impurity However the following lots manufactured with this drug substance resulted with higher levels of the Impurity:

Lot 1-AHU-5= 0.155% through 0.175% Lot 1-AHU-6= 0.167% through 0.17

- An internal memo dated 3/5/99 indicates that the analytical guidelines based on a review of a PQR database for has a RRT of and that B Betamethasone acetate reports that has a RRT
- The environmental samples collected during the validation performed in 1995 with the previous filler show the presence of 1 CFU of Pseudomonas vesicular in the stopper hopper. In addition, 13 CFU of Staphylococcus sp. were obtained from the employee's glove.
- b) Betasone Suspension 5/2 mg/ml

No validation for the current manufacturing process with the filling machine has been performed.

c) Solganal Suspension 50 mg/ml

No validation for the current manufacturing process with the the little ling machine has been performed.

EMPLOYEE(8) NAME AND TITLE (Print or Type) DATE ISSUED 6/13/01 Carmelo Rosa, Investigator Jose F. Pedró, Investigator SEE REVERSE OF Ileana Barreto-Pettit, Investigator THIS PAGE Ivis L. Negrón, Chemist PAGE 6 OF 25 PAGES INSPECTIONAL OBSERVATIONS

FORM FDA 483 (5/85)

	DISTRICT ADDRESS AND F	HONE NUMBER	
DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE FOOD AND DRUG ADMINISTRATION	San Juan, Puerto Rico Tel. (787) 729-6854	00901-3223	
NAME OF INDIVIDUAL TO WHOM REPORT ISSUED	PERIOD OF INSPECTION 5/1/01-6/13/01	C.F. NUMBER 2650149	
TITLE OF INDIVIDUAL MARGATA	TYPE ESTABLISHMENT IN Drug Manufacturer		
FIRM NAME Schering-Plough Products, L.L.C.	NAME OF FIRM, BRANCH Same		
STREET ADORESS Road 686 Km 0.5	STREET ADDRESS OF PREMISES INSPECTED Same		
CITY AND STATE (Zip Cods) Manati, Puerto Rico 00674-0486	CITY AND STATE (Zip Code Same		
d) Afrin Sinus Congestion No Drip. Afrin Severe Conge	stion No Drip and Afrin Ext	a Moisturizing No Drip	Nasal Spray:
 (1) The manufacturing processes for each the above the Afrin No Drip Severe Congestion lot 0-SND 0-SND-1 with bottles filled with only water on the previous inspection you continue releasing process. (2) You also failed to establish specifications for the 	-1, the single validation back he filling line. Even though products to the market without the decradants/impurities for	this observation was pre- out performing any re-val	sented to you during idation of the filling
The same and the s	in the degradant A and nes	v #6 levels in Oxymetaz	oline Hydrochlorid
Drip Extra Moisturizing. There is an increase assay in recent lots such as 0-TRJ-1 (12 mo. @ there are no investigations related to the increase	25°C), 0-LKA-5 (9 mo. At of this degradant.	@ 25°C), 1-LKA-3, and	1-LKA-4; ROWCVG
assav in recent lots such as 0-TRJ-1 (12 mo. @	25°C), 0-LKA-5 (9 mo. At of this degradant. for stability testing of Afr	@ 25°C), 1-LKA-3, and in No Drip Nasal Spray.	During the stability
assay in recent lots such as 0-TRJ-1 (12 mo. @ there are no investigations related to the increase (3) You fail to have a weight change specification testing of lot 0-LKA-6 (9 mo. @ 25°C), a dif	25°C), 0-LKA-5 (9 mo. At of this degradant. for stability testing of Afr	@ 25°C), 1-LKA-3, and in No Drip Nasal Spray.	During the stability
assay in recent lots such as 0-TRJ-1 (12 mo. @ there are no investigations related to the increase (3) You fail to have a weight change specification testing of lot 0-LKA-6 (9 mo. @ 25°C), a diffinvestigation was performed.	25°C), 0-LKA-5 (9 mo. At of this degradant. for stability testing of Afr ference of 8% in weight ch	in No Drip Nasal Spray.	During the stability unit nine (9) and n
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assay in recent lots such as 0-TRJ-1 (12 mo. @ there are no investigations related to the increase (3) You fail to have a weight change specification testing of lot 0-LKA-6 (9 mo. @ 25°C), a diffinvestigation was performed. e) Optimmune Ophthalmic Ointment You changed the source of the active drug ingredient	25°C), 0-LKA-5 (9 mo. At of this degradant. for stability testing of Africance of 8% in weight claim and validated this change we not provide a high degree.	in No Drip Nasal Spray, nange was obtained for the about of assurance that these a	During the stability and not
assay in recent lots such as 0-TRJ-1 (12 mo. @ there are no investigations related to the increase (3) You fail to have a weight change specification testing of lot 0-LKA-6 (9 mo. @ 25°C), a diffinvestigation was performed. e) Optimmune Ophthalmic Ointment You changed the source of the active drug ingredient f) Integrilin Injection Validations for Integrilin Injection process changes do capable of consistently produced products that meet pre- (1) Only one lot was executed to perform the follow	25°C), 0-LKA-5 (9 mo. At of this degradant. for stability testing of Africance of 8% in weight of and validated this change we not provide a high degree determined specifications and ving change validations:	in No Drip Nasal Spray, nange was obtained for the about the only one lot of the about of assurance that these adquality attributes for the	During the stability and representation of the stability and repre
assay in recent lots such as 0-TRJ-1 (12 mo. @ there are no investigations related to the increase (3) You fail to have a weight change specification testing of lot 0-LKA-6 (9 mo. @ 25°C), a different investigation was performed. e) Optimmune Ophthalmic Ointment You changed the source of the active drug ingredient f) Integrilin Injection Validations for Integrilin Injection process changes do capable of consistently produced products that meet pre- (1) Only one lot was executed to perform the follow	25°C), 0-LKA-5 (9 mo. At of this degradant. for stability testing of Africance of 8% in weight of and validated this change we not provide a high degree determined specifications and ving change validations: n, 0.75 mg/ml., 1888.	in No Drip Nasal Spray. The name was obtained for the above of assurance that these is different authority attributes for the chisize, Using Active Ing.	During the stability and not not nine (9) and not
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Iose F. Pedró, Investigator Heana Barreto-Pettit, Investigator

Ivis L. Negrón, Chemist INSPECTIONAL OBSERVATIONS

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DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE FOOD AND DRUG ADMINISTRATION	DISTRICT ADDRESS AND PHONE NUMBER 466 Fornandez Juncos Avenue San Juan, Puerto Rico 00901-3223 Tel. (787) 729-6854
TO: L'CHASO LACAS	PERIOD OF INSPECTION C.F. NUMBER 2650149
TITLE OF INDIVIDUAL MANAGER	TYPE ESTABLISHMENT INSPECTED Drug Manufacturer
FIRM NAME Schering-Plough Products, L.L.C.	NAME OF FIRM, BRANCH OR UNIT INSPECTED Same
STREET ADDRESS Road 686 Km 0.5	STREET ADDRESS OF PREMISES INSPECTED Same
CITY AND STATE (Zip Code) Manati, Puerto Rico 00674-0486	CITY AND STATE (Zip Code) Same
(A) P. D CC OS2 B CV-lidation to establish AS hours had	ding time period for Integrilin Injection 2.0 mg/mL, batch size

(2) For P-SS-053-P [Validation to establish 48-hours holding time period for Integrilin Injection 2.0 mg/mL, batch size L], only 5 liters of the bulk solution were retained for the 48-hour period in the holding tank as opposed to the normal batch size.

g) Vancenase AO Nasal Suspension:

You failed to conduct viscosity testing during the validation of Vancenase AQ Nasal Suspension 0.084% or provide written scientific justification for not conducting this testing.

Revalidation of Vancenase AQ Nasal Suspension 0.84% compounding and filling process to eliminate an overcharge for both the active (Beclomethasone dipropionate) and the preservative (Phenylethyl Alcohol) was performed using only one lot of product. Numerous complaints (during year 2000-2001) related to this product have been received.

h) Nasonex Nasal Spray:

- (1) During the previous inspection, the process validation for Nasonex Suspension 0.5% was cited as being inadequate because samples of one validation lot collected from the compounding tank revealed a potency of 123% for Benzalkonium chloride. In addition, an addendum to the summary report of validation reports that assay results near the lower specifications were obtained in lot 9-KTL-104, and unknown and atypical impurity peaks were observed in the estimation of degradation product assay for this lot. You continue manufacturing and releasing the product for distribution without performing a re-validation.
- (2) complaints for Nasonex Nasal Spray were received during the period of 2000-2001. Most of the complaints are related to a problem with the pump delivery system. Additional indications of a delivery problem are reported in test results for the finished product prior to release. For example:

On 12/02/00 one of the units of Nasonex Nasal Spray lot #0-KTL-128 tested for Uniformity of Spray Content at label assay had an OOS result of meg weight per actuation. The investigation indicated that there is a high probability that agglomerate was present in the actuator. However, there is no indication that the manufacturing or delivery system was evaluated to assure that patients consistently receive the intended dose of the drug.

In a variance report dated 5/7/01, Nasonex Nasal Suspension lot 1-KTL-116 resulted with spray patterns rendering a non-conforming result. To correct delivery failures, your investigation summary recommends that the actuator be removed, cleaned with methanol and dried with a stream of nitrogen to correct delivery problems during testing. This modified procedure is not part of your validated delivery process. Furthermore, this modification is not feasible for patients using the product.

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Carmelo Rosa, Investigator
Jose F. Pedró, Investigator
Ileana Barreto-Pettit, Investigator
Ivis L. Negrón, Chemist

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DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE FOOD AND DRUG ADMINISTRATION	DISTRICT ADDRESS AND PHONE NUMBER 466 Fernandez Juncos Avenue San Juan, Pucrto Rico 00901-3223 Tel. (787) 729-6854	
TO: L'CAD DO LAYAS	PERIOD OF INSPECTION 5/1/01-6/13/01 C.F. NUMBER 2650149	
	TYPE ESTABLISHMENT INSPECTED Drug Manufacturer	
FIRM NAME Schering-Plough Products, L.L.C.	NAME OF FIRM, BRANCH OR UNIT INSPECTED Same	
STREET ADDRESS Road 686 Km 0.5	STREET ADDRESS OF PREMISES INSPECTED Same	
CITY AND STATE (Zip Code) Manati, Pucrto Rico 00674-0486	CITY AND STATE (Zip Code) Same	

Reprocess .

3. You changed your manufacturing process for sterile products by including a re-filtration process of different products when the filters used in the aseptic filtration failed to meet the filter integrity test. A determination of the impact of the re-filtering of the products is not performed. Furthermore, this operation is not approved for the below products in their respective NDA applications. An investigation focused on a determination of the cause of the integrity failures is not performed. Examples are lots 0-AMK-Comp-6/Garamycin Injection, 0-AHU-Comp-2/Celestone Soluspan, 0-AHU-Comp-34/Celestone Soluspan Suspension, 0-RKP-Comp-20/Nuflor Injection, and 1-BEX Comp-4/Bacteriostatic WFI.

Microbiological Controls

- 4. You fail to have adequate microbiological controls in your sterile process operations as evidenced by the following:
 - a) You lack adequate validation of your cleaning and sanitation process for the different filling areas to assure compliance, adequate microbiological controls and a minimum risk of contamination of the products processed aseptically in sterile filling rooms 48, 49, 52, 55, 56 and 68. Indications that you lack environmental controls and therefore may be compromising the sterility of your products were observed. For example:
 - (1) During year 2000-2001 the presence of <u>Penicillium</u> sp. and other microorganisms have been detected in different sampling points locations of the above rooms such as: the middle of the room, near the empty vials, near and above the filling nozzles, area of the stoppers, near the filtration area and on the employees gloves and a revalidation has not been performed. In addition, no investigations were performed to determine the actual source of the organisms and eliminate the potential risk of contamination.
 - (2) Manipulative and environmental samples collected during 12/26-28/00 resulted in alert limits. Penicillin sp., and Staphylococcus sp., other than S. aureus, were isolated. Lots 0-SRB-C-44/final lot 0-SRB-46/Bacteriostatic WFI, 0-KPR-118/Nuflor, and lot 0-ANG-9/Gentocin Durafilm Ophthalmic Solution were manufactured during this period. The investigation concluded that the possible cause for the contamination for the sample collected during 12/26-28/00 was that the media was contaminated. Testing of the plates found the organisms Cladosporium sp. And Acremonium sp. in the unused plate media. These organisms are different from the organisms isolated in the samples and no justification for the assumption that the plates were contaminated with the organisms found in the environmental samples was available.
 - (3) On 3/6/01, 5 CFU of <u>Penicillium</u> sp. were detected near the empty vials in room 49. On 3/6/01, 20 CFU of <u>Penicillin</u> sp. Were detected near the filling nozzles of room 48. On 3/6/01, 15 CFU of the same organism were also detected in the center of the filling room 48. On 3/6/01, 6 CFU of Penicillium sp. were also detected near the filling nozzles of room 56. On 3/10/01, 5 CFU were detected near the filling nozzles of the filler in room 49 and on 3/19/01, 62 CFU were reported in

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SEE REVERSE OF THIS PAGE	EMPLOYEE(S) SIGNATURE CAMPAGE STATE	Carmelo Rosa, Investigator Jose F. Pedró, Investigator Ileana Barreto-Pettit, Investigator Jvis L. Negrón, Chemist	6/13/01
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	DISTRICT ADDRESS AND PHONE NUMBER 466 Fernandez Juncos Avenue San Juan, Puerto Rico 00901-3223 Tel. (787) 729-6854
TO: L'CARDO ZAVAS	PERIOD OF INSPECTION C.F. NUMBER 2650149
TITLE OF INDIVIDUAL	TYPE ESTABLISHMENT INSPECTED Drug Manufacturer
FIRM NAME Schering-Plough Products, L.L.C.	NAME OF FIRM, BRANCH OR UNIT INSPECTED Same
STREET ADDRESS Road 686 Km 0.5	STREET ADDRESS OF PREMISES INSPECTED Same
CITY AND STATE (Zip Code) Manati, Puerto Rico 00674-0486	CITY AND STATE (Zip Code) Same
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room 68, above the filling nozzles. A result of 120 CFU of the same organism had also been reported in room 48 in a sample collected on 7/6/00.

(4) A variance investigation report (No. 01-GIR-205) related to environmental samples of viable particles on gowning and non-critical surfaces collected during 2/23/01 through 4/30/01 is inadequate. This investigation attributes the OOS growth detected to possible contamination of the media plates through improper handling. The organisms found in the samples, Penicillin sp and Aspergillus predominated in all the environmental samples. Bacteria such as Micrococcus sp., Bacillus sp., Gram positive bacilli non-spore former. Pichia mexicana, and Candida parasilopsis were also isolated. The manipulative control plates for gowning also showed growth of Penicillium sp., and Micrococcus sp. These organisms have been found previously in the aseptic area samples. The investigation states that although contaminated plates were observed in the lots received during Nov. 2000 through April 2001 these were accepted with the exception of lot TSA % of the plates received were contaminated. There is no justification recorded for the use of 10173333A, because a 🚛 plates that were contaminated upon receipt in the laboratory. Attributing the contamination to the plates to improper handling cast doubts upon the adequacy of your inspection procedure for medium/plates received and used. The investigation is also inadequate (section 22.0) because it states that non-critical surface samples and gowning samples are not criteria necessary to accept a lot. Therefore, you approved batches 1-SRB-7, 1-CNX-202, 1-AHU-5, 1-AHU-7, 1-CJR-105 and 1-RKP-206 even though questionable results had been obtained. In addition, results at the alert or action limits for non-critical surface samples and gowning samples obtained for the following lots: 1-BEX-C, 1-RKP-C-4, 1RKP-208, 1-SRB-11, 1-SBHA-4, 1-RKP-9, 1-AEC-2, 1RKP-101 and 1-SRB-13, were also not considered as an acceptance or rejection criteria for these lots. Therefore you fail to demonstrate that you have total control of your environmental conditions and release products to the market even though you have environmental samples that demonstrate that the lots may have been at risk of becoming contaminated.

Furthermore, samples for viable particles collected during the filling of lots 1-SRB-7, a-CNX-202, a-AHU-7, 1-CJR-105, 1-AHU-5 and 1-RKP-206 were observed in the action limit. In addition, of the poperators that participated in the filling of lot # 1-SRB-7 resulted in the action or alert limit for the gowning environmental sample. The operators that participated in the filling of lot 1-CNX-202 resulted in the alert limit for the gowning environmental test.

In addition, you show lack of microbiological control by indicating that since <u>Penicillin</u> sp. And <u>Aspergillus</u> sp. were isolated in these dates (2/26/01, 03/08, 03/12/01, 03/22/01, 04/04/01, 04/20/01 and 04/23/01) it is expected that these fungi remain in the room environment and found in subsequent samples collected.

Your investigation is also inadequate and questions your justifications for release of lots 1-SRB-7, 1CNX-202, 1-AHU-5, 1-AHU-7, 1-CJR-105 and 1-RKP-206. The release of these lots was based on a passing sterility and LAL test. However, you fail to demonstrate that you had adequate

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EMPLOYEE(S) NAME AND TITLE (Print or Type)
Carmelo Rosa, Investigator
Jose F. Pedró, Investigator
Ileana Barreto-Petit, Investigator

6/13/01

Ivis L. Negrón, Chemist

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DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE FOOD AND DRUG ADMINISTRATION	DISTRICT ADDRESS AND PHONE NUMBER 466 Fernandez Juncos Avenue San Juan, Puerto Rico 00901-3223 Tel. (787) 729-6854
NAME OF INDIVIDUAL TO WHOM REPORT ISSUED TO: CARDO Zayas	PERIOD OF INSPECTION C.F. NUMBER 2650149
TO: RICARDO ZAYAS TITLE OF INDIVIDUAL GENERAL MANAGER	TYPE ESTABLISHMENT INSPECTED Drug Manufacturer
FIRM NAME Schering-Plough Products, L.L.C.	NAME OF FIRM, BRANCH OR UNIT INSPECTED Same
STREET ADDRESS Road 686 Km 0.5	STREET ADDRESS OF PREMISES INSPECTED Same
CITY AND STATE (24) Code) Manati, Puerto Rico 00674-0486	CITY AND STATE (24 Code) Same

environmental controls during the manufacture of lots 1-SRB-7, 1-CNX-202, 1-AHU-7, 1-CJR-105 and RKP-206 for which alert or action limits were obtained. Furthermore, you indicate that the results don't compare with the result historically found.

- 4. b) There is no assurance that your Water for Injection (WFI) system has been properly qualified in that continuous problems in maintaining the required temperature are encountered. For example:
 - (1) On 2/03/01 the WFI loop pump BP-216 was shut down (inconsistent pump performance) causing the temperature of the WFI loop to drop from the required 80°C to 48°C. The investigation indicates that this was an isolated case for year 2001. However, on 2/15/01 pump BP-217 was shut down due to a power failure causing the temperature in the WFI loop to drop from 80°C to 54°C. On 3/7/01, the temperature in the WFI loop dropped from 80°C to 55°C. The DW 80 loop dropped to 60°C and the DW 60 loop dropped to 33°C. Again, on 3/28/01 the water temperature in the WFI loop dropped from 80°C to 50°C. On 4/11/01 the WFI loop dropped from 80°C to 78°C.
- 4. c) The media fills performed during year 2000 and 2001 do not simulate the product's exposure time during your normal production. For example:
 - (1) Media fills 0-MF-22 & 1-MF-3 performed on 9/6/00 and 2/7/01 for line 2 do not represent or simulate your current manufacturing process and conditions. The media fills were performed within normal operational conditions. On 11/28/00 Integrilin Injection, lot #S0300A1 started its filling process at 2:35 p.m. At 5:00 p.m. the process was stopped because of a possible low fill problem. As a result of this situation the filling line was disassembled and assembled again on 11/29/00. After the assembly of the filling line the batch started to be filled again. Then to "assure" operational conditions the filling line equipment was disassembled cleaned, and sterilized. Then on 9:50pm of 11/29/00 the third portion of this lot started to be filled. The filling process ended at 12:20 am of 11/30/00. None of the media fills performed during year 2000 or 2001 simulate this extra handling and conditions. Furthermore, you have no study to support the holding time period to which the compounding # 0-SBH-C8, divided into lots #S0300A1, #S0300B1, #S0300C1, was exposed after it was aseptically filtered. The investigation report into

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Carmelo Rosa, Investigator
Jose F. Pedró, Investigator
Ileana Barreto-Pettit, Investigator
Ivis L. Negrón, Chemist

6/13/01

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DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE FOOD AND DRUG ADMINISTRATION	DISTRICT ADDRESS AND PHONE NUMBER 466 Fernandez Juncos Avenue San Juan, Puerto Rico 00901-3223 Tel. (787) 729-6854	
TO: (CICARDO ZAVAS	PERIOD OF INSPECTION 5/1/01-6/13/01	C.F. NUMBER 2650149
TITLE OF INDIVIOUS CAPAS TITLE OF INDIVIOUS CAPAS THE OF INDIVIOUS MANAGER	TYPE ESTABLISHMENT INS Drug Manufacturer	
FIRM NAME Schering-Plough Products, L.L.C.	NAME OF FIRM, BRANCH O Same	
STREET ADDRESS Road 686 Km 0.5	STREET ADDRESS OF PREMISES INSPECTED Same	
CITY AND STATE (Zip Code) Manuti Puerto Rico 00674-0486	CITY AND STATE (Zip Code) Same	
this incident incorrectly states that the compounding	g exceeded the validate	d holding time of

hours. You have no validation of a hour holding time period for your Integrilin Injection compound. In addition, the samples of the compounding sent to the laboratory for a sterility test were not tested.

- (2) Media fill # 1-MF-4 for filling line # 1 had a filling time of 10 hours with 35 minutes. However, Integrilin Injection lot # TO334A1, filled on this line on 2/24/01, had a filling time of 13 hours and 50 minutes:
- (3) Media fill # 1-MF-3 for filling line # 2 had a duration or media exposure time of 11 hours and 55 minutes. However, Bacteriostatic Water for Injection lot #1BEX101, filled on this line on 3/22/01 had a filling duration of 15 hours with 30 minutes;
- (4) Media fills 1-MF-7 and 1-MF-8 for filling line # 6B, performed on 2/14/01 and 2/16/01, had a filling duration of 4 hours and 55 minutes, and 8 hours and 10 minutes, respectively. Optimmune Ophthalmic Ointment lots 1MBK1 and 1MBK2, filled on this line on 3/08/01 and 3/14/01, had a filling duration of 18 hours and 55 minutes and 15 hours and 45 minutes, respectively.
- (5) Media fill 1-MF-8 also failed to meet the non-viable particulate test specifications (particulates in 5/minutes/ft³) for the sample collected from above the filling needles. The sample resulted with particulate in 5 min./5 ft3. Even though this media fill was executed on 2/14/01, you have failed to conduct an investigation to determine the cause.
- 4. d) Environmental samples are not collected as required. For example:
 - (1) During year 2000 no sampling of air or critical and non-critical surfaces in the controlled areas where sterile products are manufactured was performed. As of 6/5/01, an investigation has not been generated to determine why no samples were collected during this entire year.
 - (2) You failed to follow SOP 950.08.14, Surface Sampling in Aseptic Areas (translation), in that the microbiological environmental samples of the critical surfaces (filling needles) were not collected at the end of the filling process of Ocuclear Ophthalmic Solution lot 0-CJR-110 filled on 11/27/00.
 - (3) Investigation 00-GIR-138 states that the environmental samples for viable and non-viable particles were not collected at the end of the filling operation of Colestone lot 0-AHU-54. This same lot was also found out of limits for black specks during the visual inspection.

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	EMPLOYEE STAGNATURE	Carmelo Rosa, Investigator	6/13/01
SEE REVERSE OF		Jose F. Pedró, Investigator	
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FORM FDA 483 (5/85)

	DISTRICT ADDRESS AND PHONE NUMBER 466 Fernandez Juncos Avenue San Juan, Puerto Rico 00901-3223 Tel. (787) 729-6854	
TO: CAR DO ZAYAS	PERIOD OF INSPECTION C.F. NUMBER 2650149	
TITLE OF INDIVIDUAL GAMERA! MANAGER	TYPE ESTABLISHMENT INSPECTED Drug Manufacturer	
FIRM NAME Schering-Plough Products, L.L.C.	NAME OF FIRM, BRANCH OR UNIT INSPECTED Same	
STREET ADDRESS Road 686 Km 0.5	STREET ADDRESS OF PREMISES INSPECTED Same	
CITY AND STATE (Zlp Code) Manati, Puerto Rico 00674-0486	CITY AND STATE (Ztp Code) Same	

- (4) The Variance Report Logbook also indicates that Variance Investigation Report 01-GIR-120 is related to the failure to conduct environmental sampling in controlled areas. No investigation has been performed and no lots are identified as being affected. A Preliminary Variance Investigation Report also indicates that some air and critical surface samples were not collected during the period of February 1-15, 2001 as part of the environmental samples in controlled areas.
- 4. e) Your determination of your filter laminarity and air flow in your filling rooms is inadequate in that the determination is not a dynamic exercise. None of the employees normally present during routine operations were present during the evaluations to determine if the laminarity and air flow is affected by the presence of the for temployees that are normally present in the room during a production. In addition, you fail to have evidence (e.g. video) to demonstrate that the smoke test was adequately executed.
- 4. f) You fail to have validated holding times for your sterile products after the products are filtered. Examples of the above are as follows:
 - (1) On 11/28/00 Integrilia Injection, lot #S0300A1 started its filling process at 2:35 p.m.. At 5:00 p.m. the process was stopped because of a possible low fill problem. As a result of this situation the filling line was disassembled and assembled again on 11/29/00. After the assembly of the filling line the batch started to be filled again. Then to "assure" operational conditions the filling line equipment was disassembled cleaned, and sterilized. Then at 9:50pm on 11/29/00 the third portion of this lot started to be filled. The filling process ended at 12:20 am on 11/30/00. Investigation into this incident incorrectly states that the compounding exceeded the validated holding time of hours. You have no validation of started to the laboratory for a sterility test were not tested.
 - (2) A holding time study for Integrilin Injection documented under report P-SS-053-R with a final Approval date of 5/8/01 is inadequate because it was performed with only 5 L of portions of Integrilin compound. The actual batch size of an Integrilin compound is L.
 - (3) Garamycin 0-AMS-101 was aseptically filtered on 12/15/2000 and filled on 12/19/2000. No Holding time validation for this amount of time (4 days) is available.
 - (4) Gentocin Durafilm Ophthalmic Solution lot 0-ANG-9 was aseptically filtered on 12/22/00 and filled on 12/26/00. No holding time validation for this amount of time (4 days) is available.

æ١	Ocuclear Ophthalmic Solv	tion lots 0-C	IR-11	0 and 0-CH	R-111,	filled from	n the	compounding	g lot
(2)	#0-CJR-C-8, were asepti	cally filtered	nn	11 <i>72272</i> 1XX	ano n	iot intea	шш	11/2//2000	ann
	#U-CJR-C-6, Wete asept	IATURE			TEMPLO	YEE(S) NAM	EAND	TITLE (Print or T	ype)

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The Please

Carmelo Rosa, Investigator
Jose F. Pedró, Investigator
Ileana Barreto-Pettit, Investigator
Ivis L. Negrón, Chemist

6/13/01

INSPECTIONAL OBSERVATIONS

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FORM FDA 483 (5/85)

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DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE FOOD AND DRUG ADMINISTRATION	OISTRICT ADDRESS AND PHONE NUMBER 466 Fernandez Juncos Avenue San Juan, Puerto Rico 00901-3223 Tel. (787) 729-6854	
NAME OF INDIVIOUAL TO WHOM REPORT ISSUED	PERIOD OF INSPECTION 5/1/01-6/13/01	C.F. NUMBER 2650149
TITLE OF INDIVIDUAL MANAGER	TYPE ESTABLISHMENT INS Drug Manufacturer	
FIRM NAME Schering-Plough Products, L.L.C.	NAME OF FIRM, BRANCH O	
STREET ADDRESS Road 686 Km 0.5	STREET ADDRESS OF PRE Same CITY AND STATE (Zip Code)	
CITY AND STATE (Zip Code) Manati, Puerto Rico 00674-0486	Same	
11/28/2000. No validation for this holding time of environmental swab sample of the critical surface	e in direct contact with	the product (filling

needles) were not collected at the end of the filling operation as required by SOP GMP. PR 950.08.14, Sampling of Surface in Aseptic Pharmaceutical Area (translation).

- 4. g) You fail to test for sterility and LAL at the 24-month and other stability intervals as required. Examples are as follows:
 - (1) Variance Investigation Report #01-GIR-224, dated 5/4/01 (unsigned), indicates that Nuflor Injection, lot #9-RKP-301 was not tested for Sterility and Pyrogens (LAL) at the 24-month interval because the samples were misplaced and discarded by error.
 - (2) Variance Investigation Report #01-GIR-225, dated 4/2/01 indicates that Azium Solution lot #8-AGJ-1 was not tested for sterility at the 24-month interval. Furthermore, even though the test was scheduled for 2/10/01 and you noticed that a test had not been performed on 3/01, you still decided not to conduct a sterility test to assure that the product had remained sterile.
 - (3) Variance Investigation Report #01-GIR-227, dated 4/17/01 indicates that on 2/8/01, Celestone Phosphate Injection, lot #7-AKP-1 was sent to the lab. (42 months from date of manufacture) because no sample was delivered to the laboratory for analysis at the 36-month expiration period.
 - (4) Your Variance Report Logbook also indicates that Variance Investigation Report # 01-GIR-106, dated 2/13/01, is related to another LAL test that was not performed to a WFI point. No investigation has been performed.
 - 4. h) When samples are not available, assumptions are made that results are within specifications even though there is no evidence to support this assumption. Examples are as follows:
 - (1) Assumption that a swab test that was supposed to be collected on 8/13/00 from a critical surface (#48-5) after the filling of lot 0-KPR-109 resulted with 0 CFU was made even though there is no documentation to confirm the results. You conclude that because the sample was not sent to the ID lab the result was 0 CFU (Variance Report 00-GIR-012).
 - (2) Variance Report # 01-GIR-027 (dated 01-16-01) indicates that although you have no evidence to demonstrate that the positive controls resulted in positive results, these were positive because the analyst certifies that they were positive.
 - (3) Variance Report # 01-GIR-040 indicates that a sample collected on 12/18/00 from Room 56, point # F-8 (next to the filling machine) during the filling of lot 0-SRB-43 (Bacteriostatic Water for Injection) was lost. One (1) CFU was

tilling machine) duting the rining of	The state of the s	DATE ISSUED
SEE REVERSE OF THIS PAGE	EMPLOYEE(S) NAME AND TITLE (Frint or Type) Carmelo Rosa, Investigator Jose F. Pedró, Investigator Ileana Barreto-Pettit, Investigator Ivis L. Negrón, Chemist	6/13/01
APPROVE EDITION MAY BE USED	INSPECTIONAL OBSERVATIONS	PAGE 14 OF 25 PAGES

FORM FDA 483 (5/85)

	DISTRICT ADDRESS AND	PHONE NUMBER
DEPARTMENT OF HEALTH AND HUMAN SERVICES	466 Fernandez Juncos Avenue San Juan, Puerto Rico 00901-3223	
PAIBLIC HEALTH SERVICE	Tel. (787) 729-6854	
FOOD AND DRUG ADMINISTRATION		
NAME OF INDIVIDUAL TO WHOM REPORT ISSUED	PERIOD OF INSPECTION	C.F. NUMBER
	5/1/01-6/13/01	2650149
TO: /CAD DO CATA	TYPE ESTABLISHMENT IN	SPECTED
12 or movement Manager	Drug Manufacturer	COLUMN HIS SECTED
FIRM NAME	NAME OF FIRM, BRANCH Same	OR UNIT INSPECTED
Schering-Plough Products, L.L.C.	STREET ADDRESS OF PR	EMISES INSPECTED
STREET ADDRESS	Same	
Road 686 Km 0.5	CITY AND STATE (Zip Cod	a)
CITY AND STATE (Zip Cade) Manati, Puerto Rico 00674-0486 obtained but the organism could not be identified	Same	
4. i) On 11/16/00 you used stoppers with expired sterility RKP-117 (Nuflor Injection). A Variance Investigation I investigation was prepared a month after the incident, dated j) You actions taken after obtaining water samples about sample collected from point BV-709 (sterile compound cause of the contamination was not determined, lots 0-with the contaminated water were released. Furthermore resulted with the same organism. Furthermore, the contamination was not determined, lots 0-with the contaminated water were released. Furthermore, the contamination was not aseptic techniques training.	12/29/00. ve your action limit of a sing area) resulted with the KMF-201, 0-CNX-104, so ther points (BV-310 and the first that the first tha	CFU are inadequate. On 5/13/00 a water 82 CFU. Although you acknowledge that the SO244A1, 0-ANG-3, 0-AHU-16 manufactured d BV-707 corresponding to DW 80°C loop also by inspector who took the samples is relatively
k) Your microbiology laboratory Observation Report Of Solution (Veterinary (100mg/ml) lot 0-BNP-Compound collected on 4/6/00 (Mixer tank BT-151) and 4/7/00 (sar µm filter after compound). No intergrity test was done resulted with 81 CFU/100 ml (Candida parapsilosis). MCTA with 168 CFU/100 ml and by SDA and estim investigation is inadequate because it shows no evidence.	nple taken from approximate to the filter. The sample The sample collected f	ately 24 hours after pre-filtration through a 0.22 to collected from the mixer tank tested by SDA from after the pre-filtration resulted by method from positive bacilli non-spore former). The

Failure Investigations/Corrective Actions:

- 5. Your laboratory investigations are inadequate in that atypical and unexpected analytical results are invalidated without adequate investigations which include examination of possible causes for the problem, determination of the root cause of the problem, possible involvement of other lots of the product or other products, and appropriate corrective actions to prevent recurrence of the problem. For example:
 - a) On 4/16/01 Celestone Soluspan lot 1-AHU-8 failed to meet assay (suspension uniformity) specifications for both active drug ingredients (Betamethasone Acetate and Betamethasone Sodium Phosphate) with results of 123.6% and 127.3, respectively 16). Investigation #01-F2-18 attributes the OOS to a possible error in recording the entry weight of the sample by writing it as 21.0435g instead of 22.0435g. No reason was given for the assumption that the sample weight was recorded incorrectly. Similar variability in sample weight was observed in other vials which had analytical results which were within

EMPLOYEE(S) NAME AND TITLE (Print or Type) 6/13/01 Carmelo Rosa, Investigator Jose F. Pedro, Investigator SEE REVERSE OF lleana Barreto-Pettit, Investigator THIS PAGE Ivis L. Negrón, Chemist PAGE 15 OF 25 PAGES

FORM FDA 483 (5/85)

PREVIOUS EDITION MAY BE USED

INSPECTIONAL OBSERVATIONS

DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE FOOD AND DRUG ADMINISTRATION	DISTRICT ADDRESS AND PHONE NUMBER 466 Fernandez Juncos Avenue San Juan, Puerto Rico 00901-3223 Tel. (787) 729-6854	
NAME OF INDIVIDUAL TO WHOM REPORT ISSUED	PERIOD OF INSPECTION 5/1/01-6/13/01	C.F. NUMBER 2650149
TITLE OF INDIVIDUAL MANOSET	TYPE ESTABLISHMENT IN Drug Manufacturer	
FIRM NAME Schering-Plough Products, L.L.C.	NAME OF FIRM, BRANCH Same	
STREET ADDRESS	STREET ADDRESS OF PE	
Road 686 Km 0.5 CITY AND STATE (Zip Code) Manati, Puerto Rico 00674-0486	CITY AND STATE (Zip Cod Same	
Ivianari, i corre serve de la constante de la	were not questioned or in	validated.

specifications. The analytical results for these samples were not questioned or invalidated.

- b) MRB #20000287, dated on 9/01/00 and related to a sample of Celestone Soluspan Suspension 0-AHU-32 showed OOG results for Betamethasone Acetate and did not meet the RSD criteria for stage II suspension uniformity assay for Betamethasone Acetate. A re-preparation was tested and resulted with values of 89.9 % (3/5th), 88.69 and 86.40 %. The investigation indicates "Although the re-preparation results confirmed the initial results, it were not considered for the stage II evaluation. No justification was recorded for invalidation of the original results.
- c) Investigation into unknown peaks found in several lots of Nasonex Nasal Spray concluded that the unknown peak was benzophenone, and that the source of the peak was the leaching of benzophenone from the printed label, through the bottle into the product. A summary of the investigation and your conclusions was submitted to the FDA via a letter dated 5/3/01. The information obtained from your investigation was inadequate to prove the conclusion for the following reasons:
 - You failed to test unlabeled filled bottles to determine whether the impurity was present when there was no label on the bottle.
 - You also failed to test any retain or stability samples of the lots which were within expiration and already distributed to determine if the impurity was present in other lots of product on the market.
 - You failed to test all the lots of Nasonex distributed with the label which was the alleged source of the benzophenone impurity.
 - You failed to determine the actual times in relation to the age of the product when the impurity was being found.
 - You failed to evaluate your process and bulk drug synthesis.
 - This same impurity was also found in two other products (Lotrimine and Gyne-Lotrimin Cream) manufactured at your facility. These products are packaged in metal tubes and do not use the same type of label as the Nasonex Nasal Spray. You failed to evaluate if there was any relation between the Benzophenone found in Nasonex and the Lotrimin and Gyne-Lotrimin Creams (Clotrimazole Cream 1%). Furthermore, you are aware of the presence of Benzophenone in your products containing Clotrimazole since prior to 1/28/98, when internal guidelines were established for Lotrimin Cream 1%. However, the stability records for Lotrimin Cream/Gyne Lotrimin & Femcare Vaginal Cream shows that there are no established specifications for this impurities and that it is being monitored for information only.

 Only 	one (1) lot with the new replaced was	s entered in the stability program. JEMPLOYEE(S) NAME AND TITLE (Print or Type)	DATEISSUED
	EMPLOYEES) SIGNATORE	Carmelo Rosa, Investigator Iose F. Pedró, Investigator	6/13/01
SEE REVERSE OF THIS PAGE	and the state of t	Ileana Barreto-Pettit, Investigator Ivis L. Negrón, Chemist	
EORM EDA 483 (5/85)	PREVIOUS EDITION MAY BE USED	INSPECTIONAL OBSERVATIONS	PAGE 16 OF 25 PAGES

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	DISTRICT ADDRESS AN	PHONE NUMBER	
	466 Fernandez Junc	466 Fernandez Juncos Avenue	
DEPARTMENT OF HEALTH AND HUMAN SERVICES		San Juan, Puerto Rico 00901-3223	
BURLIC HEALTH SERVICE	Tel. (787) 729-6854	Tel. (787) 729-6854	
FOOD AND DRUG ADMINISTRATION			
NAME OF INDIVIOUAL TO WHOM REPORT ISSUED	PERIOD OF INSPECTIO	C.F. NUMBER	
NAME OF INDIVIDUAL TO WHOM REPORT 100000	5/1/01-6/13/01	2650149	
TLE OF INDIVIDUAL	TYPE ESTABLISHMENT	TYPE ESTABLISHMENT INSPECTED	
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oad 686 Km 0.5	CITY AND STATE (Zip C	ode)	
TY AND STATE (Zip Code) Ianati, Puerto Rico 00674-0486	Same		
anati, Puerto Rico 00674-0486 An internal communication dated March 0	1. 2001 in which your firm	a states that the benzophen	one responds poorly
An internal communication dated March 0 when tested by LC/MS and that your firm form	was unable to confirm the	presence of Benzophenone	in batch U-K1L-11Z
when tested by LC/MS and that your firm by LC/MS although the impurity was for	and in this lot when it wa	s tested by HPLC/DAD.	LC/MS was used w
by LC/MS although the impurity was for perform the study determining the presence	of benzophenone to verify	that it was leaching from to	te broomer raners.
 Only six (6) lots were tested as part of the 	investigation.		
·		received since 1999. Furth	ermore, a complaint
Unspecified impurity peaks have been for investigation related to the ineffectiveness	and in complaint samples	2/4/2000) received on 8/21:	00 indicates that the
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DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE FOOD AND DRUG ADMINISTRATION	DISTRICT ADDRESS AND PHONE NUMBER 466 Fernandez Juncos Avenue San Juan, Puerto Rico 00901-3223 Tel. (787) 729-6854	
CHAME OF INDIVIDUAL TO WHOM REPORT ISSUED	PERIOD OF INSPECTION	G.F. NUMBER
TO: RICARDO ZayAS	5/1/01-6/13/01	2650149
TITLE OF INDIVIDUAL.	TYPE ESTABLISHMENT INSPECTED	
General MANAGED	Drug Manufacturer	
FIRM NAME	NAME OF FIRM, BRANCH C	PR UNIT INSPECTED
Schering-Plough Products, L.L.C.	Same	
STREET ADDRESS	STREET ADDRESS OF PRE	MISES INSPECTED
Road 686 Km 0.5	Same	
CITY AND STATE (Zip Code)	CITY AND STATE (Zip Code)	
Manati, Puerto Rico 00674-0486	Same	

- h) You invalidated the initial atypical analytical data for Betamethasone Acetate and reported the data obtained from a new sample preparation for the stability testing at 12 month 25 °C interval for Celestone Soluspan Suspension, batch 0-AHU-1, on the basis of an unconfirmed assumption that the atypical results were due to a problem with the original sample composite (Lab Inv. # 01-F2-12). There was no information available in the investigation report that supported the premise that the composite sample was prepared incorrectly.
- i) In Lab. Inv. # 01-F3-013, you invalidated the initial and confirmation uniformity of spray content assay results of Vancenase AQ Nasal Spray lot 9-TEH-326, tested as a result of a consumer complaint. The first actuation tested on 3/14/01 resulted in a value of 126.6%. A re-injection of the same vials tested on 3/16/01 confirmed the initial result with a value of 133.7%. A triplicate retest was then performed showing satisfactory results. Your investigation stated that the cause for the OOS could not be confirmed. However, you discarded the OOS test results on the basis that the most probable assignable cause was agglomeration of suspended active ingredient in the tip of the bottle or sample or that it was improperly agitated prior to filtration during the sample preparation, or that the bottle sample was improperly shaken prior to pump priming. There was no information in the investigation report to support any of these conclusions.
- j) The conclusion of Lab. Inv. # 00-F2-15/MRB 2000-0205 for atypical results for Benzalkonium Chloride (BAC) assay, a preservative used in Celestone Soluspan Suspension, in stability batch 0-AHU-6A at 3 months 25 °C interval was incomplete. According to the investigation report, batch 0-AHU-6A consisted of the units and was a portion of commercial batch 0-AHU-6 of the investigation report, batch 0-AHU-6A consisted of the units and was a portion of commercial batch 0-AHU-6 of the investigation report, batch 0-AHU-6A was fitted with stoppers from a new supplier and was placed in stability as part of a study (protocol 00-FP-004) to qualify the new stopper supplier. The study was cancelled for reasons not related to the atypical results for BAC and the stability samples were removed from the stability program. According to the conclusion of the MRB 2000-0205, no further action was required since the batch 0-AHU-6A was removed from the stability program. However, you failed to test the retain samples of commercial batch 0-AHU-6 for BAC to determine if the atypical values were also present in this batch or were caused by the new stoppers.
- 5. k) In the following three recent laboratory investigations, you concluded that extraneous peaks in sample chromatography were the result of contaminated glassware. Notably, the glassware used for the testing of both Vancenase and Nasonex products involved in these investigations is dedicated for testing of the individual products.
 - (1) Lab Inv. 01-F3-009, dated 2/21/01, for Vancenase AQ Nasai Spray, 0.84 mg/g, lots 9-TEH-313 and 9-TEH-314 (18 months @ 25°C) reported that an extra peak was detected at about a minutes in the sample chromatography of all units tested in the original run of Uniformity of Spray Content at Labeled number of actuations (1977) assay. This peak showed up in all ten product samples and not in the standard preparations. Your conclusion was that the extra peaks could be attributed to glassware contamination introduced by the 50-ml volumetric flasks. However, you failed to conduct glassware testing, i.e. rinse solutions, to confirm that the peak was definitely originating from contamination in the 50-mi volumetric flasks and not from other sources. You also failed to indicate why the glassware for all 10 samples was

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EMPLOYEE(S) NAME AND TITLE (Print or Type)
Carmelo Rosa, Investigator
Jose F. Pedró, Investigator
Ileana Barreto-Pettit, Investigator
Ivis L. Negrón, Chemist

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06/24/2001 23:39 787-729-6658	СВ	PAGE 03/15
DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE FOOD AND DRUG ADMINISTRATION	DISTRICT ADDRESS AND F 466 Fernandez Juncos San Juan, Puerto Rico Tel. (787) 729-6854	Avenue
TO: CARDO DAVAS	PERIOD OF INSPECTION 5/1/01-6/13/01	C.F. NUMBER 2650149
TITLE OF INDIVIDUAL TENANT MANAGED	TYPE ESTABLISHMENT INS Drug Manufacturer	SPECTED
FIRM NAME Schering-Plough Products, L.L.C.	NAME OF FIRM, BRANCH C Same	DR UNIT INSPECTED
STREET ADDRESS Road 686 Km 0.5	STREET ADDRESS OF PRE	MISES INSPECTED
CITY AND STATE (Zip Code) Manati, Puerto Rico 00674-0486	CITY AND STATE (Zip Code) Same	
presumed to be contaminated while the glassware for		
(3) Lab Inv. 00-F1-11, dated 4/12/00, for Nasonex Nathat eluted at minutes exceeded the specification Assay. Your conclusion was glassware contamination though this glassware is dedicated and pre-treated pro0-F1-11) that supported the premise that the glassware sample from lot 0-KTL-105 was prepared and to and invalidated the original ones based on this conclusion.	TEH-305, tested in the occlusion was that the present flasks, even though you hat resulted in chromaton limits (100 pt. 100 pt	RRT) in sample chromatography of unit # 4 briginal run of Uniformity of Spray Content at sence of the extra peak was due to glassware a conducted a special testing of new glassware graphy results without any extraneous peaks. 5 reported that an unspecified impurity peak metasone Furoate and Degradation Products columetric stopper or the centrifuge tube even a no information in the investigation report (# he unspecified peak was not characterized. A were obtained You reported the new results
5. 1) Laboratory investigation 01-BU-002/MRB # 20010021 of a Betamethasone Acetate bulk lot 0-DOH-JJNN-6551 is inade the re-test in triplicate results were reported. No justification	equate in that the original	and confirmed results were discarded and
 Corrective actions when atypical results are obtained during from the stability program. Examples are as follows: 	stability testing sometim	nes involve the removal of the failing samples
a) On 6/15/98, a Lab. Inv. # 98-BU-0034 was prepared be batch # 8-DOH-HH-6004 (converted into 8-DOH-X-60 %) with results of 2% and duplicate retests of 2%. 00-BU-011) was generated on 2/8/00, but no test was per that the batch was restricted for the Japanese market. It stability program the batch will be discontinued from a subject batch."	07) failed to meet the s An additional testing red formed. A memo dated also indicates that "Since the stability program. N	specifications for ordinary impurities (NMT quest for laboratory investigation (Lab. Inv. #8/16/2000 (approx. two years later) indicates e no international batches are included in the No further testing will be performed for the
b) Celestone Soluspan Suspension batches 0-AHU-7 (ma	in portion), 0-AHU-7a	and 0-AHU-7b were filled from the same

b) Celestone Soluspan Suspension batches 0-AHU-7 (main portion), 0-AHU-7a and 0-AHU-7b were filled from the same compound 0-AHU-C-7. Portions 0-AHU-7a and 0-AHU-7b were placed on stability as part of the qualification/stability study of an alternate supplier for the stoppers. These portions failed the uniformity test with results of 86.86% (lot 0-AHU-7a), 86.43% and 84.15% (lot 0-AHU-7b). In this case the main portion 0-AHU-7 was released to the market, but was not placed on stability. The investigation into the OOS results for lots 0-AHU-7a and 0-AHU-7b indicates that the OOS is due to a suspicion

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Carmelo Rosa, Investigator
Jose F. Pedró, Investigator
Ileana Barreto-Pettit, Investigator
Ivis L. Negrón, Chemíst

6/13/01

INSPECTIONAL OBSERVATIONS

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DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE FOOD AND DRUG ADMINISTRATION	DISTRICT ADDRESS AND P 466 Fernandez Juncos San Juan, Puerto Rico Tel. (787) 729-6854	Avenue
TO: PICADO ZAVAS	PERIOD OF INSPECTION 5/1/01-6/13/01	C.F. NUMBER 2650149
TITLE OF INDIVIDUAL CAPACITAL MANAGEA	TYPE ESTABLISHMENT INS Drug Manufacturer	PECTED
FIRM NAME Schering-Plough Products, L.L.C.	NAME OF FIRM, BRANCH O Same	R UNIT MSPECTED
STREET ADDRESS Road 686 Km 0.5	STREET ADDRESS OF PRE Same	MISES INSPECTED
CITY AND STATE (Zip Code) Manati, Puerto Rico 00674-0486	CITY AND STATE (Zip Code) Same	

that the operator may have failed to reactivate the recirculation system after lot 0-AHU-7 was completed, since the two sub-batches were filled after the main batch. There is no evidence to support this suspicion. Furthermore, since these two lots were filled within approx. 15-20 minutes of each other, there is no documentation to support the assumption that a stop requiring rejection of the first portion occurred. There is no documentation to support the assumption that a stop requiring rejection of the first portion occurred. There is no documentation to support the assumption that a stop requiring rejection of the first portion occurred. There is no documentation to support the assumption that a stop requiring rejection of the first portion occurred. There is no evidence to support this suspicion. Furthermore, since the two sub-batches were discarded before filling batch 0-AHU-7a. Lots 0-AHU-7a and 0-AHU-7b were removed from the stability program for reasons not related to the uniformity test failures. No investigation was made to determine if the OOS uniformity results were also present in lot 0-AHU-7. There was no indication in the records that the new stoppers were the cause of the OOS results.

c) Celestone Soluspan Suspension lot 0-AHU-6A produced atypical results for the Benzalkonium chloride assay results. The lot was removed from the stability program and the product was shipped internationally.

7. Laboratory Controls/Analytical Methods:

- a) You altered the HPLC (high performance liquid chromatography) analytical method 032088-220B-022-01.02, for the assay of Nasonex (Mometasone Puroate), degradation products, and leachables analysis of lot 0-KTL-112 to decrease the sample injection volume from 200 uL to 100 uL. Your firm justified this change of sample injection volume as a constraint of sample loop of the HPLC despite this method has been used 200-uL-sample injection since 6/07/00.
- b) You did not investigate the high difference in weight change test for stability samples at 9 and 12 months @ 25°C interval of lots 0-LKA-6 and 0-TRJ-1, respectively. The weight change showed a difference up to 1.5 % for lot 0-TRJ-1 tested on 4/17/01 and 8.03% for Lot 0-LKA-6, 9 month @ 25°C tested on 4/10/01.
- c) You failed to provide the rationale on why Procedure 990.81.00 (HPLC, GC and System Suitability Criteria) allows variability of potency or label strength between sequential injections of the same or different samples.
- d) In addition, you prepare composite samples for Integrilin injection for assay/uniformity by HPLC, as part of the on-going stability program, which is contrary to the official method submitted to the FDA. In the official method 944.112.02 [Integrilin Injection (Finished) SBH (2 mg/mL); FWB (0.75 mg/mL)] single injections of two vials each should be run. However, you have been using a general procedure 990.113.01 (Testing of packaged Solutions, Creams, Ointments and Suspensions). A normal batch of Integrilin is the sample is to be prepared with all representative the sample is to be prepared with all representative the sample in two aliquots injected. Some examples are lots 9-SBH-A-1, 9-SBH-A-2, 9-SBH-A-3, and 0-FWB-A-141.
- c) You failed to have stability indicating analytical methods for the following products:

Garamycin Injection (AMK)
Garacin Injection (DFX)

Gentocin Injection (BNP)
Garasol Injection (EJR)

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EMPLOYEE(S) NAME AND TITLE (Print or Type)
Carmelo Rosa, Investigator
Jose F. Pedró, Investigator
Ileana Barreto-Pettit, Investigator
Ivis L. Negrón, Chemist

6/13/01

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DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE FOOD AND DRUG ADMINISTRATION	DISTRICT ADDRESS AND PHONE NUMBER 466 Fernandez Juncos Avenue San Juan, Puerto Rico 00901-3223 Tel. (787) 729-6854
TO: 2 CAD W Zavas	PERIOD OF INSPECTION C.F. NUMBER 2650149
TITLE OF INDIVIDUAL SEARCH MANAGER	TYPE ESTABLISHMENT INSPECTED Drug Manufacturer
FIRM NAME Schering-Plough Products, L.L.C.	NAME OF FIRM, BRANCH OR UNIT INSPECTED Same
STREET ADDRESS Road 686 Km 0.5	STREET ADDRESS OF PREMISES INSPECTED Same
CITY AND STATE (Zlp Cods) Manati, Puerto Rico 00674-0486	CITY AND STATE (Zip Code) Same

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Gentocin Veterinary Solution (KMF)

Garamycin Ointment (HF)

Sodium Sualmid Ophthalmic Ointment (JG) Gentocin Ophthalmic Solution (AMS)

Metymid Ophthalmic Ointment (AH) Azium Solution (AGJ)

Afrin Menthol Nasal Spray (JBS)

Occuclear Ophthalmic Solution (CJR)
Afrin 4 hrs Decongestant (PBW)
Netromycin Injection (UWH)

Gentocin Durafilm Solution Ophthalmic (ANG)

Betasone Aqueous Suspension (BBK)

Garamycin Cream (HB)

Garamycin Ophthalmic Ointment (HJ)

Afrin Menthol Moisturizing Saline Mist (KDH)

Garasol Chick (RCK)

Otobiotic Otic Solution (BEN)

Banamine Solution (CNX)

Garamycin Ophthalmic Solution (AMS)

Gentocin Pinkeye Spray (PKY)

Diprosone Ointment

Afrin Duration Nasal Spray (CFC)

Afrin Sinus Nasal Spray (GAD)

Afrin Extra Moisturizing Nasal Spray (SBE)
Metimyd Ophthalmic Suspension (ACY)

Gentocin Otic Solution (ANW)

Ethamoline Injection

Gentocin Phtalmic Ointment (HJ)

Solganal Suspension (WS)

Banamine Paste

f) You failed to identify/characterize unknown impurities/degradation peaks "" as per your commitment made in the response to the previous FDA-483. You have recognized in your document titled "PQR Methods-Unknown Peaks "" that you have six (6) drug substances and 18 drug products that have impurities > ""; however, up to this date, you have not initiated the ID/characterization of these impurities. The following drug substances and drug products identified by you as typically having unknown impurities > "" are: a) Drug Substances- Betamethasone Acetate DS, Alclomethasone Dipropionate DS, Betamethasone Sodium Phosphate DS, Dexamethasone DS, Betamethasone Valerate DS, Gentamicin Sulfate DS; b) Drug Products- Celestone Phosphate Injection, Gentocin Otic Solution, Betasone Aqueous Suspension, Trilafon Injection, Hyperstat IV Injection, Azium IV Solution, Gentocin Durafilm Solution, Diprosone Ointment 0.05%, Diprolene Ointment 0.05%, Diprolene AF Cream 0.05%, Lotrimin Cream 1%, Elocon Cream, Elocon Ointment, Celestone Soluspan Suspension, Trilafon Injection, Diprolene Gel 0.05%, Lotrisone Cream, Normodyne Injection.

Stability:

8. a) The explanation recorded for removing Gyne-Lotrimin Cream 2% validation batch No. 8-BPW-1 from the stability program was because this product was exposed to a high temperature in the stability chamber. However, another validation lot (8-BPW-2) remained in the same chamber until completion of study. No documentation to confirm that a chamber problem had occurred was available and no other product or lots in the same chamber were questioned.

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EMPLOYEE(S) NAME AND TITLE (Prim or Type)

Carmelo Rosa, Investigator

Jose F. Pedró, Investigator

Ileana Barreto-Pettit, Investigator Ivis L. Negron, Chemist

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6/13/01

FORM FDA 483 (5/85)

787-729-6658

DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE FOOD AND DRUG ADMINISTRATION	DISTRICT ADDRESS AND PHONE NUMBER 466 Fernandez Juncos Avenue San Juan, Puerto Rico 00901-3223 Tel. (787) 729-6854
NAME OF INDIVIDUAL TO WHOM REPORT ISSUED TO: ZICAR DO ZAVAS	PERIOD OF INSPECTION C.F. NUMBER 2650149 TYPE ESTABLISHMENT INSPECTED Drug Manufacturer
FIRM NAME Schering-Plough Products, L.L.C. STREET ADDRESS	NAME OF FIRM, BRANCH OR UNIT INSPECTED Same STREET ADDRESS OF PREMISES INSPECTED Same
Road 686 Km 0.5 CITY AND STATE (Zip Code) Manati, Puerto Rico 00674-0486	Same CITY AND STATE (Zip Code) Same Lines the stability program and the dates on which these event

CB

- b) Samples were removed from the stability program or placed into the stability program and the dates on which these ev occurred were not documented in the chamber logbook. For example:
 - (1) At the time of implementing a new system on 5/99 you failed to determine when the samples were entered into the program.
 - (2) All samples in stability chamber #2 were removed on 12/29/00 due to a shutdown of the chamber. A handwritten note in the stability records indicates that the samples were transferred from stability chamber #2 to a refrigerated van on 12/29/00 and returned on 1/15/01. However, there is no record in the chamber logbook of this transfer. Furthermore, there is no record in the refrigerated van's logbook that these samples were stored there during that time period.
- There is no assurance your firm has control over the stability samples stored in chambers # 2, 3, 4, 6, 10 & 11. For 8. c) example:
 - (1) A sample of lot 0-GFL-3 was removed from chamber # 1, but the date and the reason for the removal was not documented in the logbook or in any other document.
 - (2) There is no date of entrance for the stability samples that were placed on stability in chambers #3, 4, 7, 10 & 11prior to 5/24/99. In addition, some samples were taken out of chambers #3 and 6, but the date was not documented.
 - (3) Some lots were entered into the chambers up to 7 months after they were received in the stability area. For example, Lot 0-DOH-HHN-6304, according to the Material Transfer Sheet, was received on 4/17/00 and entered to chamber # 10 on 11/3/00. Similarly, Lot 0-PKY-1 received on 6/6/00 was entered in chamber # 6 on 8/30/00.

Consumer Complaints:

- 9. a) You failed to investigate consumer complaints in a timely manner. For a total of consumer complaints received during years 2000 and 2001 for all your products, only 276 have been investigated. These are some of the more recent consumer complaints that are still pending or were not investigated in a timely manner:
 - (1) #2001-010586B Vancenase AQ, lot 9-TEH-313, Adverse Event, dated 3/27/01, classified as "Urgent" was still incomplete
 - (2) #2001-001793, Vancenase AQ, Unit will not spray, dated 1/17/01, not investigated;
 - (3) #2001-002486, Vancenase AQ, Unit will not spray, dated 1/24/01, not investigated;

(3) #2001-002486, Vancenase AQ, Omit will not apray,		DATE ISSUED
EMPLOYEES) FEMATURE	TEMPLOYEE(S) NAME AND TITLE (Print or Type)	6/13/01
	Carmelo Rosa, Investigator	0/13/01
SEE REVERSE OF	Jose F. Pedró, Investigator	1
THIS PAGE	Ileana Barreto-Pettit, Investigator	
THIS PAGE	Ivis L. Negron, Chemist	
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DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE FOOD AND DRUG ADMINISTRATION	DISTRICT ADDRESS AND PHONE NUMBER 466 Fernandez Juncos Avenue San Juan, Puerto Rico 00901-3223 Tel. (787) 729-6854	
NAME OF INDIVIDUAL TO WHOM REPORT ISSUED	PERIOD OF INSPECTION C.F. NUMBER 2650149	
TITLE OF INDIVIDUAL CHERAS MANAGER	TYPE ESTABLISHMENT INSPECTED Drug Manufacturer	
FIRM NAME Schering-Plough Products, L.L.C.	NAME OF FIRM, BRANCH OR UNIT INSPECTED Same STREET ADDRESS OF PREMISES INSPECTED	
STREET ADDRESS Road 686 Km 0.5	Same City AND STATE (Zip Code)	
CITY AND STATE (Zip Code) Manati, Puerto Rico 00674-0486	Same	

(4) 2001-002179, Vancenase AQ, Unit will not spray, dated 2/6/01, not investigated;

(5) 2001-000739 Vancenase AQ, Unit Leaked not sprayed, dated 1/10/01, completed on 5/2/01, 4 months after receipt at Manati;

(6) #2001-000850, Nasonex Nasal Spray, Unit will not spray, dated 1/10/01, completed on 5/3/01, 4 months after receipt at Manati.

- g) The timetable specified in SOP 149.07.05, Handling/Investigation of Domestic Complaints and Veterinary Products used to handle complaint investigations is not adequate, in that:
 - (1) For complaints classified as "Urgent", the SOP allows 30 days for an investigation. This is in addition to the 60 days that New Jersey allows to receive the product from the consumer. (New Jessey centrally receives all consumer complaints and then forwards them to the Manati facility). This could amount to 90 days before an "urgent" investigation is completed.
 - (2) For complaints classified as "Routine" the SOP allows for up to 60 days to investigate complaints accompanied with the product. This is in addition to the 60 days allowed by New Jersey to receive the product from the consumer. This could amount to 120 days to complete an investigation.

10. Raw Materials

- a) You have not executed the new Audit Qualification Plan 2001 to audit suppliers of active ingredients and raw materials as committed in your response to the previous FDA-483. For example, audits of and and were scheduled to be performed in April and May 2001, respectively, and have not been conducted yet.
- b) When a problem with excessive rejection of vials due to visible particles was encountered for several lots of Celestone Soluspan Suspension, you contacted the contract sterilizer of the API Betamethasone to determine whether the particles were present in the sterilized API. (This API is manufactured in your facility and then sent to the contract sterilizer to be sterilized) In three separate investigation reports, you state that the supplier denied that there were particles in the sterilized API, however, in the fourth report, you state that the supplier stated that particles were present in the Betamethasone Acetate API and that they were "intrinsic to the process". These investigations span a period from 12/99 to 5/31/01. Review of your OOS reports for 1999/2000 shows several instances when lots of Betamethasone Acetate API (sterile and non-sterile) were found to be OOS for visible particles, black particles or foreign matter. No steps were taken to audit and perform a complete evaluation of the contract's sterilizer process or to increase sampling and

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EMPLOYEE(S) NAME AND TITLE (Print or Type) Carmelo Rosa, Investigator Jose F. Pedró, Investigator Ileana Barreto-Pettit, Investigator Ivis L. Negrón, Chemist

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DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE FOOD AND DRUG ADMINISTRATION	DISTRICT ADDRESS AND PHONE NUMBER 466 Fernandez Juncos Avenue San Juan, Puerto Rico 00901-3223 Tel. (787) 729-6854
TO: NAME OF INDIVIDUAL TO WHOM REPORT ISSUED	PERIOD OF INSPECTION C.F. NUMBER 2650149 TYPE ESTABLISHMENT INSPECTED Drug Manufacturex
FIRM NAME Schering-Plough Products, L.L.C.	NAME OF FIRM, BRANCH OR UNIT INSPECTED Same STREET ADDRESS OF PREMISES INSPECTED
STREET ADDRESS Road 686 Km 0.5 CITY AND STATE (Zip Code) Manati, Puerto Rico 00674-0486	Same CITY AND STATE (Zip Code) Same

monitoring of this API after finished lots were reported as above limits for particle rejects.

Training:

- 11. There is no assurance that the training provided during year 2000 and 2001 to your analysts is adequate as evidenced in the following laboratory events:
- a) During Laboratory Investigation # 99-BU-079 initiated on 9/13/99 to investigate an OOS result in the assay of Beclomethasone Dipropionate, you concluded that the OOS result was caused by a pipetting error by the analyst. There is no record to indicate that the analyst received training in this technique. A year later, on 10/12/00, this same analyst was reported as providing training to other analysts and supervisors about correct glassware handling and pipetting as a corrective action after additional OOS results were attributed to pipetting errors.
- b) Several OOS results (Lab. Invs. 01-BU-003, 00-BU-006, and 00-BU-105) were identified as errors made by the analysts during sample preparations, pipetting of samples (Lab Inv. 00-BU-022), error in filling the vials in the HPLC, and errors verifying the analytical results against the product specifications (Lab Inv. 01-BU-010).
- c) During Laboratory Investigation # 99-BU-082, it was concluded that the Specific Rotation OOS result for Beclomethasone Dipropionate lot 8-BLO-CC-6017 (6 Mo. @ 30°C) was due to improper cleaning of the polarimeter cell; however, there is no record that the analysts were re-trained on proper cell cleaning.
- d) The efficiency and adequacy of the training program is questionable in that numerous training sessions are performed during the same day. For example, on 9/7/00 all of the following training sessions were given to the same employee.
- Procedure for spill control and disposition of chemical reagents in the QC Lab (translation)
- Standardization of the volumetric solutions
- Preparation and documentation of acidic solutions in sterile mixtures (translation)
- Analytical test for release of bulk compounding
- Operational procedure for pH determination in cream samples
- Analytical laboratory documentation policy
- Analytical laboratory investigations
- Rounding and reporting data

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SEE REVERSE OF THIS PAGE	EMPLOYEE(S) NAME AND TITLE (Print or Type) Carmelo Rosa, Investigator Jose F. Pedró, Investigator Ilcana Barreto-Pettit, Investigator Ivis L. Negrón, Chemist	6/13/01
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DEPARTMENT OF HEALTH AND HUMAN SERVICES	Olstrict Address and Phone Number 466 Fernandez Juncos Avenue San Juan, Puerto Rico 00901-3223 Tel. (787) 729-6854
NAME OF INDIVIDUAL TO WHOM REPORT ISSUED TO: FICARDO ZAJAS	PERIOD OF INSPECTION C.F. NUMBER 2650149
TITLE OF INDIVIDUAL Several Manager	TYPE ESTABLISHMENT INSPECTED Drug Manufacturer
FIRM NAME Schering-Plough Products, L.L.C.	NAME OF FIRM, BRANCH OR UNIT INSPECTED Same
STREET ADDRESS Road 686 Km 0.5	STREET ADDRESS OF PREMISES INSPECTED Same
CITY AND STATE (Zip Code) Matrati, Puerto Rico 00674-0486	CITY AND STATE (Zip Code) Same

In addition, the date the following training sessions were conducted is questionable as the training date is recorded as 9/7/00; however, there are additional annotations in the training record that these training sessions were actually given on 9/8/00, 10/2/00 and 10/6/00.

- Syringeability test for suspensions (10/6/00)
- Usage of pre-numbered analytical notebooks (10/2/00)
- Usage of QC low humidity room (9/8/00)
- Testing of package solutions, creams, ointments, and suspensions (10/6/00)

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- Handling of stability samples (10/6/00)
- e) There is no assurance that adequate training was given to all analysts on how to use the HPLC Millennium system software. This software has been used for the calculation of degradant products. Although the training was given on 4/20/99, an analyst was thoroughly re-trained on 3/5/00 (Lab. Inv. # 00-F1-11).

Additional Microbial Control/GMP issues

- 12. You fail to demonstrate the effectiveness of your media to promote the slow-growth microorganisms that may be found in your environment. Furthermore, the only criteria considered to challenge your media is by using the more frequently found microorganisms.
- 13. The documentation reported related to the collection of water samples from several points in your facility is questioned in that these samples, collected aseptically from different sampling points, are collected by the same individual within a period of 5 minutes between samples. For ex. Samples collected from the point BDB-202 (BV-916) located after BHE-202 was collected on 1/8/01 at 5:40 am and the sample from the point BDB-300 (BV-909) to BT-303 was collected by the same individual at 5:45 atu.

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Carmelo Rosa, Investigator

Jose F. Pedro, Investigator Ileana Barreto-Pettit, Investigator

Ivis L. Negrón, Chemist

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6/13/01

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