U.S. PODE + DRUE AUMON DEPARTMENT OF HEALTH AND HUMAN SERVICES 1401 ROLKVILLE PIRC PUBLIC HEALTH SERVICE FOOD AND DRUG ADMINISTRATION ROCKVILLE, MD 20852 (301) P27-6191 MAME OF INDIVIDUAL TO WHOM REPORT ISSUED C. P. NUMBER PERIOD OF IMPRETION 214-20198 TO: Robert C. Myers, DYM TITLE OF INDIVIDUAL TYPE ESTABLISHMENT INSPECTED Alma Devertice + became Director MAME OF FIRM, BRANCH OR UNIT INSPECTED FIRM NAME MILITIGAN BIOLOGICECODICES INSTIR 3500 N. MARTIN LUTTICE KING JE QUO. PARVISES INSPECTED STREET APPRES CTY OND STATE RU COME) LANSING MI EITY AND STATE CAS COLL 43908 DURING AN INSPECTION OF YOUR FIRM (I) WE OBSERVED! ANTIBARITY MICHAEL CO

The manufacturing process for Anthrax Vaccine is not validated. For example,

- The formulation tank has not been qualified for long term storage of formulated bulk Anthrax. Storage times have varied from one week to four months between formulation and filling. Lot FAV033 was formulated on 8/27/96, however it was net filled until 12/23/96.
- The formulation tank has not been qualified for mixing time, demonstrating homogeneity of the suspension. Mixing time is not specified in the batch record prior to filling and during the filling operations. The product is product as provided and settles quickly in the tank.
- The firm did not perform media fill challenges to validate aseptic manufacturing after harvest from the holding tank. These operations include the transfer of the sublots from building to building the for formulation.

Media fills are performed on fermentation and harvest trains, however not on a scheduled basis.

- There is no validation of _____ as a sporicide in anthrax production and potency testing facilities.
- e. The analytical methods for determination of and and an in Anthrex Vaccine are not validated with respect to accuracy, precision, linearity, specificity and limit of detection.
- There is no validation of the length of time sublots are held until they are used in a lot. Sublots have been held longer than 3 years prior to use. There is no stability data to support this hold time.

CET BENEFACE	EMPLOYERS) SIGNATURE	EMPLOYSES NAME AND TITLE PHRIOF DATE ISSUED
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99 10:46 CBER/DCBG	99-26459 30 1 594 1944 P.22
DEPARTMENT OF HEALTH AND HUMA PUBLIC HEALTH SERVICE FOOD AND DRUG ADMINISTRA	OISTRET ADDRESS AND PHONE NUMBER CBER, Office of Compliance and Biologics Quality, NFM-605
name of individual to whom report to: Faad EL-Hibri	ISSUED PERIOD OF INSPECTION C. F. NUMBER 711/15-23/99
TITLE OF INCIVIOUAL CEO	TYPE ESTABLISHMENT WEPECTED Biologics Manufacturez
FIRM NAME BioPort Corporation	NAME OF FIRM, BRANCH OR UNIT INSPECTED Same
STREET ADDRESS "3500 N. Martin Luther King, Ja	STREET ADDRESS OF PREMISES INSPECTED T. Blvd. Same
TAND STATE (Zip Code) Lansing, MI 48906	GITY AND STATE (20 Code) Same
DURING AN INSPECTION OF YOUR FIRM (I) (WE) OBSE	AVED:
d) the pooling process, incobservation from 2/98).	ons (downstream processing) of sublots; cluding mixing to formulate the final bulk drug product (repeat there is no validation of the actual mixing process. In addition, was formulated with only – sublots, whereby – sublots are
from 2/98). In addition, th	lots prior to their use in final product bulk (repeat observation in stoppers used to seal the —— sublot bottles may be reused all examination. The integrity of the container/closure system has
f) the hold time for the ster 2/98);	rile formulated bulk drug product (repeat observation from
a) Sublots A'	reclized Athydrogel. HITE rocess control and further processing decisions of sublots: V721 and AV744 have been deferred from further use due to ults. This assay has not been validated nor does it have

EMPLOYEE(3) NAME AND TITLE (Prov or Type)
- Julia Lukaa Gorman, Supv. Sielogias
- Cynghis L. Kallay, Microbielogias

DATE ISSUED 11/23/99