Almonophasic culture of (i): e,n,x type obtained from 'Sal. abortus-equi (a): e,n,x —x Sal. typhimurium i:1,2' was transferred to anti-e,n,x serum NGA deep tube. i:(e,n,x) type of monophasic culture was selected from the deep tube. In this monophasic type,  $H_2$  is expected to be stabilized in inactive state. Consequently, the following transduction experiment will produce swarm only when recombination occurred between  $H_2$  and phase controller.

## Experiment.

A lysate of Sal. typhimurium TM2 (titer 4.5 x  $10^9/\text{ml}$ ) was mixed with equal volume of penassay broth culture of the <u>i</u>:(enx) type and the mixture was droped on anti-i,1,2 NGA deep tubes, 0.1 ml in each. So far, twenty five deep tube cultures have been tested. None of them produced swarm. That is, no evidence of recombination between  $H_2$  and phase controller has been obtained.