ARE H_2 AND PHASE CONTROLLER SEPARABLE BY RECOMBINATION ?

A monophasic 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.

Sal. typhimurium i:1,2 ---x the i:(enx) type ----}------→ (i):e,n,x or none ?
anti-i, &-1,2
NGA.

Experiment.

A lysate of Sal. typhimurium TM2 (titer 4.5×10^9/ml) was mixed with equal volume of penassay broth culture of the i:(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.