

Preparations of K 12 Antisera

O Antisera

Preparation:

An overnight slope culture Hartley's Digest Agar was washed into 5 ml. of saline filtered through cotton wool, washed, and resuspended in saline. This suspension was then autoclaved at 10 lbs for 20 minutes. It contained about 8400×10^6 organisms /ml.

K Antiserum

Preparation

Slope culture grown and washed of as before and resuspended in 5 cc saline. It was then treated with 25 cc methyl alcohol and shaken vigorously at intervals for 2 hours. The alcohol was then centrifuged off and the deposit washed twice in saline. The final suspension had a strength of 3700×10^6 organisms /ml.

H Antiserum

Preparation

A wellgrown, overnight broth culture was treated with formalin to make a 0.2% solution of this substance. It is important to use only highly motile strains for this work. Strength 4000×10^6 organisms /ml.

Injection Routine

The same routine was followed with all the above suspensions. At two day intervals the following doses were given:

0.25 ml. 0.5 ml. 0.5 ml. 1.0 ml. 1.5 ml.

The rabbits were then bled five days after the last injection.