

SAMPLE EGGS TESTED WITH VARIOUS ANTIBIOTICS / CONCENTRATIONS

SITE: P.D.HOOK HATCHERIES LTD - OXFORD- UK
STOCK : CHICKEN PARENT BROILER BREEDERS (AGE 36 WKS)
EGG AGE AT DIPPING : 3 / 4 DAYS
DATE EGGS DIPPED : 5TH JULY 1995
DATE EGGS SET : 6TH JULY 1995
RESULTS OBTAINED : 28TH JULY 1995

ANTIBIOTICS USED : BAYTRIL 10% (PLUS 1 GRAM/LTR MST CALCIUM IN WATER)
PANGRAM 50%
TYLAN SOLUBLE

ALL DIPPED EGGS PRE TREATED WITH MST SANITISING MACHINE (MASTER-4000)
CHLOR-WASH + QUAT 800.

EGGS DIPPED IN MST VACUUM TANK (WATER : LOCAL MAINS SUPPLY)

MEAN WEIGHT GAIN OF DIPPED EGGS : 0.38 grms
(all eggs weights individually logged to 1/100th gram)

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ANTIBIOTIC / PPM	EGG SET QTY	HATCH OF TOTAL SET
BAYTRIL / 900 (8.2PH)	127	92.15%
BAYTRIL / 600 (6.8 PH)	129	91.47%
BAYTRIL / 300 (6.8 PH)	130	91.53%
TYLAN / 6000	131	68.7%
TYLAN / 4000	130	76.92%
TYLAN / 2000	132	95.45%

GENTAMICIN

25 @ 1000 PPM		
40 @ 666 PPM		
63 @ 333 PPM	128 (total)	71.87%
CONTROLS	2552	92.55%

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OBJECTIVES:-

TO OBSERVE (WITH LIMITED EGG NUMBERS) WHAT EFFECT VARIOUS ANTIBIOTICS / CONCENTRATIONS WOULD HAVE ON CHICKEN HATCHING EGGS.

CONCLUSIONS:-

BAYTRIL:
HAD LITTLE EFFECT ON HATCHERBILITY EVEN AT THE DIFFERING CONCENTRATIONS.

TYLAN:
HIGHER CONCENTRATIONS INFERRED EMBRYO TOXICITY

GENTAMICIN:
COULD NOT BE MONITORED EFFECTIVELY DUE TO MINIMAL EGG NUMBERS AT THE VARIOUS CONCENTRATION, BUT INFERRED A DEGREE OF TOXICITY FROM THE MEAN RESULTANT.

IT WAS EXPECTED THAT EXTRA STRESS BY THE DIPPING PROCESS, WOULD DECEASE HATCHERBILITY BY 1-2%. THIS WAS NOT EVIDENT IN THE GENERAL STATISTICS OBTAINED.