The MicroChem Laboratory
Physical, Chemical & Microbiological analysis

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Report No. : 4638
Date of Report : 07.07.04
Sample Submission Date : 20.06.04
Sample Ref. : Virosil

- Complete quality testing
- Microbial analysis
- Chemical analysis
- Nutritional labeling
- Shelf-life Study
- Antibacterial activity
- Problem solving at site
- Consultancy

## Test Report

**Introduction :**

We were submitted a sample of Virosil to check its efficiency as an air fumigant.

**Stated Sample Reference :**

Virosil
B. No. : VP0231
Pack size : 5 lts.
Mfg. Dt. : April 2004
Exp. Dt. : March 2005

**Concentration of Sample used :** 10% $H_2O_2$

**Contact time :** 30 minutes

**Test Method :**

To check the effectivity of the Virosil as an air fumigant, a trial was conducted at a chicken processing unit using Virosil as an aerial disinfectant sprayed with ultra low volume sprayer.

A chicken processing unit based in Mumbai having a massive area for its production, processing and packing facilities was chosen as the location for carrying out the aerial disinfection to check the efficacy of Virosil. The chicken processing unit with an area below 1000cubic ft. where the fumigation trial was conducted was most prone to contamination. Chicken waste and blood was on the tabletops at the time of fumigation.

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Virosil a disinfectant based on Hydrogen peroxide and silver in cationic form was decided to be tested for aerial disinfection of this room. Ultra Low Volume, a fogging machine that generates very fine mist was used as the delivery system.

200 ml of Virosil was mixed with 800 ml of distilled water. 1000 ml solution was fogged uniformly in the room. The fogging took approximately 20 minutes. The room was then sealed and Virosil was allowed to act for 30 minutes.

Air counts were taken in the chicken processing unit before fumigating the unit. Appropriate media plates were exposed for 15 minutes at several places in the unit. The unit was then fumigated with the submitted sample at the recommended concentration and allowed to react for 30 mins. Again appropriate media plates were exposed for 15 minutes. The plates were incubated under proper incubation conditions (temperature & time), and counts were noted.

**Results :**

| At chicken processing unit | Before Fumigation | After Fumigation | % Reduction |
|---|---|---|---|
| Bacterial Count (Average) | 92 cfu | 6 cfu | 93.5 % |
| Fungal Count (Average) | 16 cfu | Nil cfu | 99.99 % |

**Conclusion :**

It is seen that 10% $H_2O_2$ is effective in dropping the bacterial & fungal load after a contact time of 30 minutes.



ANALYST

LAB-IN-CHARGE

NOTE: Tested sample not drawn by the laboratory.

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