

Sanosil Biotech Pvt. Ltd.
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Report No. : 6427/2
Date of
Report : 10.09.05
Sample
Submission
Date : 07.06.05
Sample Ref. : Virosil Food

Kind Attn.: Mr. Tripathi

Test Report

Introduction:

We were submitted a sample of Virosil Food and Beverages Biocide, B. No. B0510 and asked to study the residual hydrogen peroxide and silver content in water after addition to water at a concentration of approximately 100 ppm (mg/lit). The study was done at selected intervals over a period of 24 hrs.

Stated Sample Reference:

Virosil Food & Beverages Biocide
B. No. : B0510
Mfg. Date : June 2005
Exp. Date : May 2006
Pack Size : 500 Ltrs

Label Claim: Silver Nitrate – 0.02 % w/v
Hydrogen Peroxide – 13 % w/v

Test Method:

RESIDUAL HYDROGEN PEROXIDE

To get a concentration of 100 ppm residual hydrogen peroxide in water, 0.5 ml of the Virosil was added to 5000 ml of distilled water. It was well stirred and closed tightly. Aliquots from this stock were taken at the selected intervals and readings were noted.

ESTIMATION OF SILVER NITRATE

From the above solution, 100 ml sample was taken at each interval. The sample was aspirated on the Atomic Absorption Spectrophotometer with graphite furnace for silver. The readings of silver at a detection limit of 10 ppb were noted and back calculated to original weight of sample. Similar solutions were prepared at select intervals and readings were noted.



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

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Convert silver to silver nitrate as below,

Atomic weight of silver \cong Atomic weight of AgNO_3

$$107.87 \cong 169.87$$

$$Y \text{ mg/100 g} \cong Y \times \frac{169.87}{107.87} \text{ mg/100 g AgNO}_3$$

Observations: Were recorded as below.

Time intervals	Hydrogen peroxide in water	Silver in water
At zero mins.	180 ppm	< 10 ppb
After 30 mins.	98 ppm	< 10 ppb
After 2 hrs	86 ppm	< 10 ppb
After 4 hrs	82 ppm	< 10 ppb
After 6 hrs	79 ppm	< 10 ppb
After 24 hrs	86 ppm	< 10 ppb

Conclusion :

Residual hydrogen peroxide in water seems to have reduced over a period of 24 hrs but silver content in water has remained same.

Khaby
 CHECKED BY

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 QUALITY MANAGER
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NOTE: Tested sample not drawn by the laboratory.



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