



# **SHELF LIFE ENHANCING TRIAL**

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# **CHILIES**

Trials on laboratory scale were taken up for checking the efficacy of Miracle L44 in increasing the shelf life of the vegetables, fruits and other products like chilies. The products were dipped in 2 % Miracle L44 treated potable water and product dried and kept for observation for the above mentioned parameters. Most important characters that were checked periodically were :

- Appearance of microbial infection of the surface: Blemish, darkening of the skin, cracks developed on the surface, any other factor that will reduce the possibility of the fruit being not accepted by the customer due to appearance
- Loss in weight over 5 % from the initial recorded weight at the start of the experiment . the experiment was terminated once the weight loss exceeded or neared 5 %
- DEBELE formula was applied to check integrity of the post harvest treatment but as this were only the initial experiments mire stress was given to the loss of weight as per point no 2 for checking the success of the treatment.

Results have been tabulated for reference and record along with the photographs of the products tested at various stages.

## **PRODUCT**

**COMMON NAME: CHILIES**

**BOTANICAL NAME: CAPSICUM FRUITENSCENS**

**VARIETY:**

**DATE OF START OF EXPERIMENT: 9 February 2022**

Procedure: AS Per Miracle S.O.P. No 001, products dipped in 2 ml miracle L44 in 1 liter potable water. Time for treatment app. 2 minute of dipping. Product fully covered with treatment mixture , no swirling or stirring allowed to rest. Removed placed on a clean non lint paper/cloth to absorb the water and let it drain off to ensure minimal moisture during the storage period. Designated as (T)

Equal amount of Control sample was observed for comparison. Control samples dipped in clean potable water. Treated in the same way as the experiment but without the addition of Miracle L44. Designated as (C)

Storage Temperature post treatment & Control: Ambient , app. 32 to 35 C

Wight recorded / Appearance:

Day 1	1500 g (T) 1500 g (C)	Appearance good, product cleaned post treatment and appears to be lustrous and visually appealing (T)	Equal amounts of Chili taken for control 1500 g (C)
Day 7	1500 g (T) 1300 g (C)	No change in appearance of test samples	Control lost weight, pods in control softened, in edible on the 7th day of storage.
Day 14	1480 g (T)	No change in appearance of test samples	Experiment terminated for control samples. Lot of fungal development on control samples
Day 21	1400 g (T)	Product is loosing lustre, darkening, yellowing, experiment terminated	

Without MIRACLE EVERYDAY (Day 7)



With MIRACLE EVERYDAY (Day 14)



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