



**KERONE**



A CRISIL-NSIC RATED COMPANY  
ISO 9001: 2008 COMPANY  
AFFILIATED TO THE UNIVERSITY OF NOTTINGHAM  
MEMBER OF AMICAL

**DATE:27/02/2017**

**PROCESS:** Dehydration of tomatoes.

**PROCEDURE:**

1. For this trial, tomatoes are chopped in round and thick slices (approx. 5-7 mm thick).
2. Weight is taken before the de-hydration process, and called it as initial weight.
3. Then drying is done in dehydrator with side draft at temperature of 70°C.
4. During the process, observations are made after every 60 minutes by checking the moisture loss on drying in tomatoes, by taking weight and by capturing pictures.

**TRIAL READINGS AND PICTURES:**

	
Before De-hydration Process Initial Weight: 475 grams	After 60 minutes Weight taken: 215 grams
	
After 120 minutes Weight taken: 79 grams	After 180 minutes Weight taken: 36 grams

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Member of  
**The University of Nottingham**

**NSIC - CRISIL**  
Rated Company

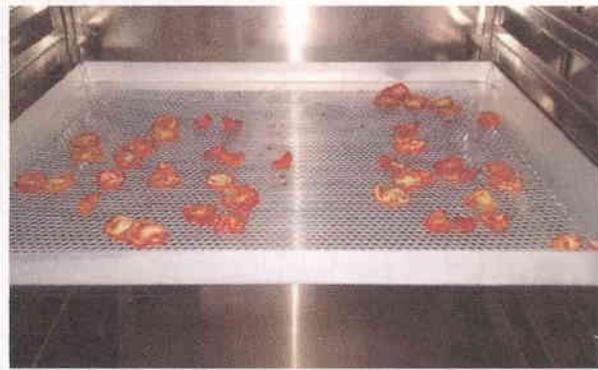


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After 240 minutes

Weight taken: 27 grams

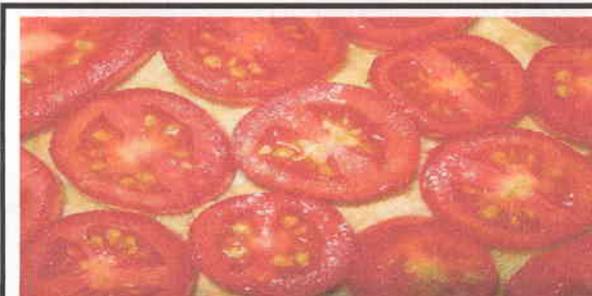


After 300 minutes

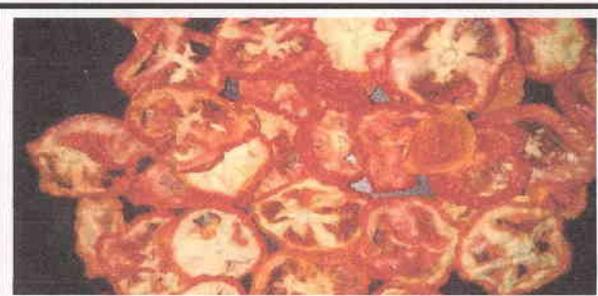
Weight taken: 27 grams

**OBSERVATIONS:**

1. After 240 minutes, weight taken is same as that of after 300 minutes. Hence, after 240 minutes at 70°C the process of de-hydration is completed as there is no weight loss after 240 minutes.
2. Here the total weight loss is 448 grams, i.e., from 475 grams of tomatoes only 27 grams remain. It shows approximately 94% weight loss in tomatoes.
3. Following are the before and after pictures of dehydration process.



Before Dehydration



After Dehydration

**LINE GRAPH AND BAR DIAGRAM SHOWING MOISTURE LOSS ON DRYING:**

Following presentation of line graph and bar diagram illustrates the moisture loss on drying in tomatoes by showing weight taken against different intervals of time.

The line graph shows the weight of tomatoes decreases over the period of time interval and in bar diagram, the numbers on bar indicates the weight of tomatoes taken at that time interval.

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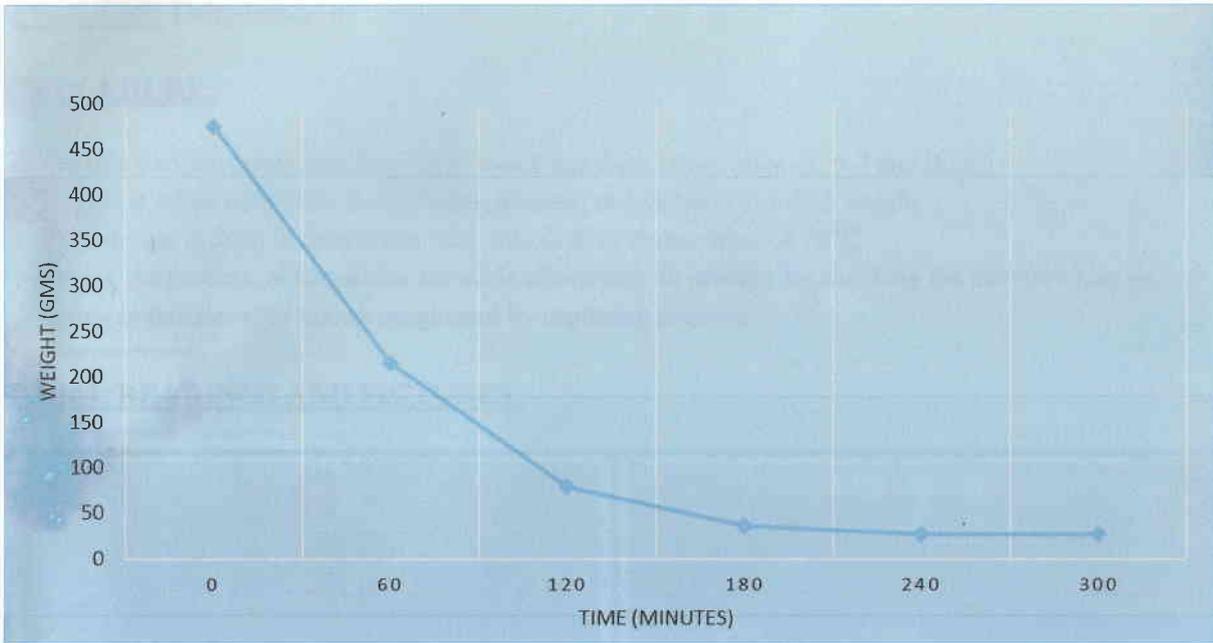


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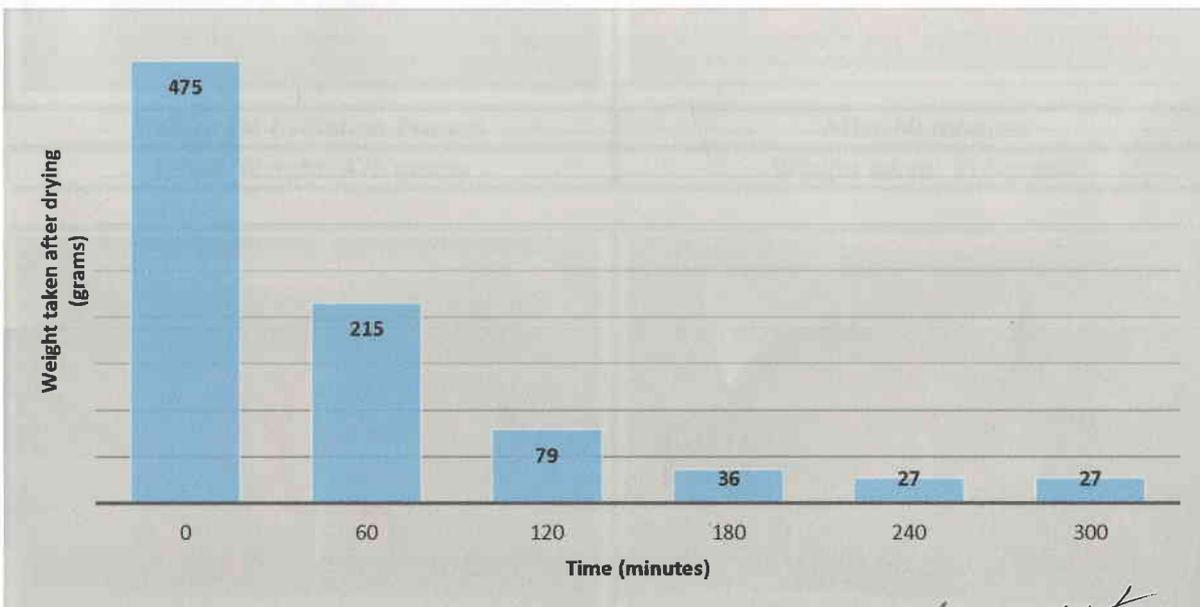


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1. Line Graph:



2. Bar Diagram:



*K Komal*

**MISS. KOMAL BHOITE**  
**TESTING INCHARGE**

*[Signature]*  
**MR. GAURAV MESTRY**  
**CHECKED BY**

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