



MAHATMA PHULE KRISHI VIDYAPEETH, RAHURI-413722

**A REPORT ON
Testing of Orgi microbes for making compost
(2018 – 2019)**

Marketed by Secure Organic Pvt ltd.

M.I.D.C, JUINAGAR, MUMBAI

Manufacturer by
M/s. Prasad Biotech, G.I.D.C., Gundlav, Valsad



**HEAD
DEPARTMENT OF PLANT PATHOLOGY
AND AGRICULTURAL MICROBIOLOGY
M.P.K.V., RAHURI – 413722**

Analytical Test Report of Orgi microbes for Making compost

Title	:-	Testing of orgi microbes for making compost
Detail on experiment location Reference	:-	No. DOR/ADR/DDR-3/T-3/Consent/79/ 2018, Dt. 10/04/2018
Name of manufacturer	:-	M/s. Prasad Biotech,G.I.D.C.,Gundlav,Valsad
Marketed By	:-	Secure Organic Pvt Ltd.,Mumbai
Common name	:-	Orgi Microbes
Test facility	:-	Department of Plant Pathology & Agricultural Microbiology, MPKV, Rahuri.
Nature of the product	:-	Kaizen microbes
Season	:-	<i>Rabi</i> 2018
Testing of	:-	1) Compost making by using plant residues. 2) Compost making by using urban waste. 3) Compost making by using sugarcane trash.
Number of treatments	:-	Four
Name of scientist involved	:-	Dr. K. S. Raghuwanshi and Dr. C. D. Deokar

Orgi microbes for making compost :-

In order to study the efficacy of Orgi microbes on compost the test Orgi microbes was tested in this department.

Microbial Analysis :-

Sr. No.	Treatment details	Cellulolytic microbes	
		Fungus (10⁴)	Bacteria (10⁶)
1	Compost making by using plant residues	13	33
2	Compost making by using urban waste	18	51
3	Compost making by using sugarcane trash	12	35
4	Control	10	31

Analysis of Compost :-

- a. Date of making compost** :- 3/11/2018
- b. Observation date** :- 14/11/2018, 6/12/2018 and 2/02/2019
- c. Sampling date** :- 7/02 /2019
- d. Compost testing submitted date :-** 7/03/2019
- e. Report date** :- 14/05/2019

Chemical analysis of different compost :-

Sr. No.	Analytical Test Parameter (%)	Plant residue compost	Urban waste	Sugarcane trash	Control compost
1	Moisture	4.20	4.28	4.22	4.65
2	Ash	75.40	73.30	70.10	81.80
3	Organic Carbon	14.5	16.50	15.00	10.90
4	Total N	0.50	0.62	0.48	0.33
5	Total P	0.17	0.19	0.14	0.15
6	Total K	0.70	0.76	0.70	0.72

Result :-

Microbial analysis of Kaizen microbes compost was carried out in the Department of Plant Pathology & Agril. Microbiology, MPKV, Rahuri. Cellulytic fungal as well as bacterial count was more in treatment two where urban waste was used. It was followed by treatment one and treatment three where plant residue and sugarcane trash respectively used.

It is revealed from the chemical analysis of different compost that organic carbon and N, P, K. were more in urban waste followed by plant residue and sugarcane trash.

Conclusion :-

It indicated that Orgi microbes is good for compost making.