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भारतीय बागवानी अनुसंधान संस्थान

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Dr.M.D.AWASTHI,
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F.No. IIHR/CPC/99/1158

10083

5th October, 1999.

M/s. Osolin Research Laboratories,
15, 20th Main, II Block,
Rajajinagar,
BANGALORE - 560 010.

Sub : Report on Evaluation of Termitac and Mealysac
on Termites, Odontotermes sp and mealybug
Maconellicoccus hirsutus...reg.

Dear Sirs,

Kindly find enclosed herewith a copy of the above
Evaluation Report based on your sponsored project.

Thanking you,

Yours faithfully,

M.D. Awasthi
5.10.99

(M.D.AWASTHI)

Encl : AS Above.

RESULTS

During 1998, the trial was conducted against termite in Mango cv. Banganpalli aged 30 years, with main trunk diameter of 1 metre (approx.). Infested trees were mechanically cleaned to remove all termites along with galleries. Among 16 selected trees, 8 trees were treated by swabbing Termitac + water (1:1) around the main trunk from ground level up to 25 cm. Observations were recorded at weekly interval after treatment. A perusal of results showed that Termitac was superior over control up to 11 weeks after treatment. The treated trees showed zero population of termites immediately after 1 week when compared to the control. After 11 weeks Termitac treated trees had only 20% infestation as compared to 75% in control. This may be useful in controlling termites in forest ecosystems by ecofriendly chemicals. So experimentation in this direction is desirable.

	Weekly Mean % Infestation (n= 8 Trees)										
	1	2	3	4	5	6	7	8	9	10	11
Treated	0	5	7.5	15	15	15	17.5	17.5	20	20	20
Control	40	45	45	67.5	67.5	67.5	67.5	70	70	70	75

During 1999 laboratory trials were conducted on grape mealybug *Maconellicoccus hirsutus* crawlers. Two concentrations were tried with one control, repeated 4 times following CRD design. Observation were recorded on number of live crawlers per shoot before spray and post treatment counts at 48 hrs., 96 hrs. and 1 week interval. Total percent mortality was also worked out. The results showed that both treatments were significantly superior over control. 200 ml Mealysac/l. was better than 100 ml Mealysac/l. after 48 & 96 hrs. However, the total percent mortality revealed that there was no significant difference between the concentrations. With more than 95% mortality, both concentrations were superior over control after one week. Experimentation to asses field efficacy and phytotoxic effects , needs to be carried out for final recommendation on field scale.

Treatments	Mean no. of crawlers/ shoot (n= 4 shoots)				
	Pre count	48 hours	96 hours	1 week	Total % mortality
Mealysac 100 ml/litre	49.5	27.5	27	2	95.96
Mealysac 200 ml/Litre	43.5	15.5	14.75	1.5	96.55
Control	52	49.5	40.25	47.5	8.65
CD (P=0.05)	30.34	25.64	24.86	17.30	