



South Asia

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Test Report No.DEL/F(C)/12/003279
Dated 09/02/2013

Issued to : **KENT RO SYSTEMS LTD.**
A-2, Sector 59, NOIDA – 201 309

Attention : Mr. Dinesh Garg

Customer Ref. No. : INVOICE No. 9SM 12001964, Dated 11/08/2012

Sample Particulars

Sample Name : **KENT Veg & Fruit Purifier (Ozone Product)**

Sample Description : Item Code. 1082

Batch No. / Lot No. & Manufacturing Date, Best before Date : NA & 21/07/2012

Sample Package & Quantity : 01 No.

Sampled by : Representative of TUV SUD South Asia Pvt. Ltd.

Sampling Protocol : NA

Sample Condition : Sample received in good condition

Date of Sample Receipt : Received on 03/09/2012 3:38 pm

Date of Analysis : 05/10/2012

Date of Completion : 09/02/2013

Note : The submitted sample is Drawn by the Laboratory.

Deepak Arora
Key Account Manager

Authorised By

Pankaj Jaiminy
Asst. Vice President

Note: The test report is electronically generated. Hence original signature is not required. For any technical query, please contact Dr. Sumant Nayak at sumant.nayak@tuv-sud.in and for any complaint please contact Rakhi Verma at Rakhi.Verma@tuv-sud.in .

Note: (1) General Terms & Conditions as mentioned overleaf, (2) The results relate only to the items tested, (3) the test report shall not be reproduced except in full without the written approval of the laboratory Laboratory: (4) For details of the accredited scope please contact the laboratory or visit www.nab-india.org

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1. Selection of Vegetable / Fruit Samples

Commercially available fruit like Apple, and vegetables like Cabbage, Tomato and Carrots of good quality were procured from Delhi market. The samples were cleaned with tap water thoroughly & then selected good quality fruit/vegetable for spiking with the selected pesticide solutions.

2. Spiking of Pesticides (Malathion, Dichlorvos, Cypermethrin) in Vegetable / Fruit samples

The above fruit/vegetable samples were sprayed with pesticide solutions concentration of 100 mg/L each (malathion, dichlorvos & cypermethrin) for 2 minutes. The samples with pesticide on the surface were then air dried for about 12 hours under ambient condition. Residual pesticides content in spiked samples was determined.

3. Ozone treatment of Vegetable / Fruit samples

The removal of pesticides from fruit/vegetable surfaces was carried out by continuously ozone gas bubbling of fruit/vegetable through KENT Veg and Fruit Purifier for 30 minutes. The ozone treated samples were washed with normal tap water and air-dried under ambient condition. Residual pesticides content in ozone-treated fruit/vegetable samples were determined. The percent reduction of individual pesticide residues in each fruit and vegetable samples were calculated to know the efficiency of vegetable and fruit purifier.



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4. Results

S. No	TEST PARAMETER	TEST RESULTS		% REDUCTION	TEST METHOD
		Un-treated	Ozone-treated		
Vegetable-Cabbage					
1**	Malathion, mg/kg	0.04	0.002	95.0	Ch.10, AOAC 18 th Edition
2**	Cypermethrin, mg/kg	0.2	Not Detected (DL – 0.01 mg/kg)	95.0	Ch.10, AOAC 18 th Edition
Vegetable-Tomato					
1**	Malathion, mg/kg	0.2	0.05	75.0	Ch.10, AOAC 18 th Edition
2**	Dichlorvos, mg/kg	0.19	0.06	68.4	Ch.10, AOAC 18 th Edition
Vegetable-Carrot					
1**	Malathion, mg/kg	3.0	0.1	96.7	Ch.10, AOAC 18 th Edition
Fruit-Apple					
1**	Malathion, mg/kg	0.5	0.1	80.0	Ch.10, AOAC 18 th Edition
2**	Dichlorvos, mg/kg	0.5	0.1	80.0	Ch.10, AOAC 18 th Edition

Note: The ** marked test is subcontracted to other NABL accredited TUV Lab.; DL – Detection Limit

Remarks : On basis of above results, it can be concluded that a significant reduction (68.4-96.7%) of above spiked pesticides is observed in fruit/vegetable samples due to ozone treatment by KENT Vegetable and Fruit Purifier. The above tested residual pesticides in respective ozonised fruit or vegetable samples are found to be within the MRL values as per FSSR (2012).

Authorized By

Chemical

- END OF TEST REPORT -