



مختبرات ويمبي  
WIMPEY LABORATORIES



### TEST CERTIFICATE

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Unit 10-19/26  
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Report No. WLR14-4827  
Sample No. WS14-1839  
Report Date: 20/04/2014

**Introduction:** Further to the request received from M/s. DLH Solution dated 12<sup>th</sup> of March 2014, the given sample was tested for physico-chemical, degradability as well as microbiological characteristics.

Sample description : Eco-red  
Sample Date Received : 12/03/2014  
Date of Test : 12/03/2014 -19/04/2014  
Tested By : SVS/MP

#### Physico-chemical, degradability and microbiological characteristics

##### Physical characteristics

Test	Method	Unit	Result
Appearance	Sensory	-	Natural Appearance of cleaning solution
Odor		-	No bad Odor, characteristics to the product
pH	ASTME 70	-	9.01

Remarks: The product is found to be alkaline in nature, rest of the physical characteristics were agreeable to the product

##### Chemical Analysis

Test	Method	Unit	Result
Volatile organic compound	USEPA 24	g/L	<0.01

Remarks: The tested sample is free from Volatile organic compounds

Test*	Method	Unit	Result
Sodium	ICP-OES	g/L	1.06
Phosphorous		mg/L	0.15
Salt content chloride	Titrimetry	g/L	1.84

Remarks: The product has lower concentration of phosphorus

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**BIO ACCUMULATIVE CHEMICALS/SUBSTANCES**

Test	Method	Unit	Result		
Arsenic	ICP-OES	mg/Kg	<.5		
Cadmium			<0.1		
Chromium			<0.3		
Lead			<0.5		
Manganese			<0.2		
Zinc			<0.5		
Silver			<0.1		
Selenium			<0.1		
Beryllium			<0.5		
Antimony			<0.5		
Titanium			<0.1		
Polychlorinated biphenyls'			USEPA 8260/3540	mg/Kg	<0.1
DDT'					<0.1
Chlordane'	<0.1				
Pyrene'	<0.1				
Pentachlorophenol'	<0.1				
Tributyl tin'	<0.1				

Remarks: The product is free from bio- accumulative substances

**Bio-degradability**

Test*	Method	Unit	Result
<b>Aerobic degradability</b>	AS 4351	% degradation	73
<b>An aerobic degradability</b>	ISO 11734	% degradation	94

Remarks: The tested sample is more subjected to aerobic degradation

(Note: Degradation is a process in which large molecule in broken down into smaller molecules)



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RESULTS OF MICROBIOLOGICAL ANALYSIS

Sl.No	Test*	Unit	Method	Result	Specification
01	Total Bacteria Count	CFU/ml	APHA 9215 B	<1	500
02	E.coli	CFU/100 ml	APHA 9222 D	<1	Zero
03	Total coliform	CFU/100 ml	APHA 9222 B	<1	Zero
04	Fecal coliform	CFU/100 ml	APHA 9222 D	<1	Zero
05	Vibrio cholera	CFU/100 ml	APHA 9260 H	<1	Zero
06	Vibrio parahaemolyticus	CFU/100 ml	APHA 9260 H	<1	Zero
07	Shigella sp	CFU/100 ml	APHA 9260 E	<1	Zero
08	Salmonella	CFU/100 ml	APHA 9260 B	<1	Zero
09	Proteus /Klebsiella	CFU/100 ml	APHA 9222 F	<1	Zero
10	Pseudomonas aeruginosa	CFU/250 ml	CCFRA 2.5.2	<1	Zero

**Remarks:** The sample is free from contamination with indicator bacteria/ pathogens indicate a clear liquid of any microbial virility.

**Conclusion**

The tested products typically being broken down by biological process, as it is subjected to aerobic as well as anaerobic degradation, it should not cause any harm to the environments. In addition the product is neither having any kind of bad smell, volatile organic compounds nor having any toxic metals that contribute to the pollution. Further the product has only mild concentrations of phosphorous and it should not cause any kind of algal blooms in water ways once they ultimately reach into it.

Signed for and on behalf of Wimpey Laboratories

Dr. Sudhanandh V.S., M. Phil, PhD  
Laboratory Manager

Test results relate only to the samples tested.  
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