



Consultancy Service for : **Well-Tec (HK) Limited**

**Certificate of Analysis**

Project Name: Verification of the cleaning ability of Biocera Washing Ball

Issue Date: 15 October 2008

Sample Description: Comparison of cleanliness between washing using Biocera Washing Ball and Wshaing powder.

Sample Received Date: 15 October 2008

Testing Period: 15 October to 8 November 2008

Certified by: Prof. Peter Hoi-fu Yu, Department of Applied Biology and Chemical Technology

Signature and Departmental chop



## Results:

A reflectance and color spectrophotometric method had been used to compare scientifically the difference in cleanliness between washing using Biocera washing ball ,and washing powder.

Towel		X	Y	Z
white towel	Before Washing	65.995	63.002	99.625
	After washed using Biocera washing ball	74.88	70.628	122.48
	Difference	-13.4631	-12.1044	-22.941
	Mean	-16.1695		
	After washed using washing powder	74.526	71.324	114.856
	Difference	-12.9267	-13.2091	-15.2883
	Mean	-13.8081		
yellow towel	Before Washing	59.738	58.018	76.349
	After washed using Biocera washing ball	65.172	64.07	86.748
	Difference	-9.09639	-10.4312	-13.6203
	Mean	-11.0493		
	After washed using washing powder	65.79	64.51	89.18
	Difference	-10.1309	-11.1896	-16.8057
	Mean	-12.7088		



Towel		X	Y	Z
Light yellow towel	Before Washing	57.243	56.632	66.235
	After washed using Biocera washing ball	69.032	65.674	99.522
	Difference	7608.772	-15.9662	-50.2559
	Mean	-28.9389		
	After washed using washing powder	68.452	64.832	100.98
	Difference	-19.5814	-14.4794	-52.4572
	Mean	-28.8393		
blue towel	Before Washing	49.429	48.111	90.517
	After washed using Biocera washing ball	55.814	52.348	116.882
	Difference	-12.9175	-8.80672	-29.1271
	Mean	-16.9505		
	After washed using washing powder	56.008	51.864	121.43
	Difference	-13.31	-7.80071	-34.1516
	Mean	-18.4208		



Towel		X	Y	Z
green towel	Before Washing	49.483	54.947	49.616
	After washed using Biocera washing ball	54.57	58.374	69.222
	Difference	-10.2803	-6.23692	-39.5155
	Mean	-18.6776		
	After washed using washing powder	55.158	58.484	72.26
	Difference	-11.4686	-6.43711	-45.6385
	Mean	-21.1814		

	Cleaning performance (comparing colorimeter XYZ values)				
Towel colour	white	yellow	light yellow	blue	green
Washing powder	better	poorer	same	poorer	poorer
Biocera Ball	poorer	better	same	better	better

Disclaimer:

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