



# TEST REPORT



KOREA MACHINERY-METER AND PETROCHEMICAL  
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Certificate No : KIM10-019

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**1.Client**

Address : A-610, Bundang Techno park, Yatap-dong 150, Bundang-Gu, Sungnam-si,  
Gyeonggi-do, Korea  
Company : BIOCERA CO.,LTD.  
Representative : Jeon, Hyoung Tag

**2.Product Sampled** : BIOCERA Ball for Laundry**3.Date of Test** : Mar. 3, 2010 ~ Jun. 8, 2010**4.Use of Report** : Quality Control

Test items	Unit	Results	
		After 1 cycle hour	After 1100 cycle hours
detergency	%	44.9	44.8

비고 : 1. Washing process :

① Condition 1 : BIOCERA BALL(For Laundry)

2. washing condition

① washing machine : household washing machine(SEW-PK102NL)

② Water level : Middle water level(66L)

③ Washing time : Standard Course (1hour/cycle)

④ Ballast fabric weight : 3.0 kg (KS C 9608:2003 Appendix 1-sheet)

⑤ water temperature : (25±2)℃

3. Soiled Fabric : Artificial Soiled Fabric (JIS C 9606 - Soiled cotton/Oleic acid, Carbon black etc.)

4. Test method : ① Measure reflectance before washing and after washing

② Calculate Detergency

5. Calculation

① Whiteness =  $100 - \sqrt{(100 - L)^2 + a^2 + b^2}$ 

② Detergency(%) = (Reflectance after washing - Reflectance before washing)

÷ (Reflectance of non-stained fabric - Reflectance before washing) × 100

※ This test result can be changed by Lot. number of soiled fabrics. End.

Prepared by


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Approved by

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2010. 06. 08

President



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