

TEST REPORT

APPLICANT : IONFARMS. Co.,Ltd
 BUYER :

KATRI NO.: S108-00000155
 DATE : Jul. 18, 2008
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SAMPLE DESCRIPTION : ONE(1) SAMPLE OF BIO WASHBALL

RECEIVED DATE : Jul. 14, 2008 ***

TEST ITEM	TEST RESULTS
	#1

Detergency (%) : submitted by applicant

soiled fabric condition	EMPA 164	CFT CS 3	EMPA 111	EMPA 141
1	20.5	28.8	28.7	16.9
2	14.8	21.9	28.4	15.4
3	28.8	30.9	71.9	19.8

Remark) 1. Washing process :

- ① Condition 1 - Wash with Bio Washball(2EA)
- ② Condition 2 - Wash with only tap water
- ③ Condition 3 - Wash with Local L(40g) detergent
2. Washing condition : Household washing machine(SEW-PK102NL),
 Middle water level(60L), Standard Course, Soak(1hr)
3. Water temperature : 15±2℃
4. Ballast fabric weight : 3.0kg (KS C 9608:2003 Appendix 1-Sheet)
5. Soiled Fabric : ① EMPA 164 - Soiled cotton/Grass
 ② CFT CS 3 - Soiled cotton/Red Wine, ③ EMPA 111 - Soiled cotton/Blood
 ④ EMPA 141 - Soiled cotton/Lipstick
6. Test method : ① Measure reflectance before washing and after washing
 ② Calculate detergency
7. Detergency (%) = (Reflectance after washing - Reflectance before washing) ÷
 (Reflectance of non-stained fabric - Reflectance before washing) × 100

#1




PARK CHANG HYENG
 Director General
 



한국화학시험연구원

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시험성적서

539-8, Gajwa 3-dong, Seo-gu, Incheon, KOREA

TEL 82-32-5709-700

FAX 82-32-575-5613

Report No : TAS-024029

Receipt Date : Jun.23.2008

Client : Oh-Shin, Taek

Test Date : Jun.30.2008

ION FARMS Co., Ltd.

909Ho, Namkwang Centlex, 440-4, Cheongcheon-dong,
Bupyeong-gu, Incheon, Korea.

Sample : BIO WASH BALL

TEST RESULTS

TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
Di-BDE	mg/kg		Not Detected	US EPA 8270D(GC/MS)
Tri-BDE	mg/kg		Not Detected	US EPA 8270D(GC/MS)
Tetra-BDE	mg/kg		Not Detected	US EPA 8270D(GC/MS)
Penta-BDE	mg/kg		Not Detected	US EPA 8270D(GC/MS)
Hexa-BDE	mg/kg		Not Detected	US EPA 8270D(GC/MS)
Hepta-BDE	mg/kg		Not Detected	US EPA 8270D(GC/MS)
Octa-BDE	mg/kg		Not Detected	US EPA 8270D(GC/MS)
Nona-BDE	mg/kg		Not Detected	US EPA 8270D(GC/MS)
Deca-BDE	mg/kg		Not Detected	US EPA 8270D(GC/MS)

1. PBBs : Polybrominated biphenyls, PBDEs : Polybrominated diphenyl ethers.

2. Limit of detection : PBBs(1.0 mg/kg), PBDEs(1.0 mg/kg)

3. Because of no certified standard solutions, the amount of Hepta-BB and Nona-BB of PBBs congeners was excluded in the quantitative analysis of total PBBs.

4. Limit of detection : Pb(5mg/kg), Cd, Hg(1mg/kg), Cr(VI)(2mg/kg)

** ICP Analysis after hydrochloric acid+Nitric acid+hydrofluoric acid resolution.

USAGE : QUALITY CONTROL

NOTE : 1. The test results on this test report are only limited to the samples and sample names provided by the customer and KTR do not guarantee the quality of all products of the customer.

2. This test report shall not be used for public relation, advertisement, lawsuit and any other purposes outside the scope of its defined usage.

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Jun.30.2008



Korea Testing & Research Institute

President *Kisung Cho*



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KOREA TESTING & RESEARCH INSTITUTE

TEST REPORT

(Additional Copy)



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TEL 82-31-999-3000

FAX 82-31-999-3001

Report No : TAH-007411

Receipt Date : Dec.12.2007

Client : OH SHIN TAEK

Test Date : Dec.17.2007

ION FARMS Co., Ltd.

#2F, DONG KYOUNG BLDG. 770-4 JAK JEON 2-DONG, KEYANG-GU, INCHEON KOREA 407-816.

Sample : BIO-ANTIBACTERIAL BALL

TEST RESULTS

TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
Pb	mg/kg		Not Detected	ISO 6101-2 : 1997 (ICP)
Cd	mg/kg		Not Detected	BS EN 1122 : 2001 (Method B, ICP)
Hg	mg/kg		Not Detected	US EPA Method 3052 : 1996 (ICP)
Cr(VI)	mg/kg		Not Detected	DIN 53314 : 1996 (Apply correspondingly, UV/Vis)

* Limit of detection : Pb(5mg/kg), Cd, Hg(1mg/kg), Cr(VI)(2mg/kg)

USAGE : QUALITY CONTROL

- NOTE :
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 2. This test report shall be used only within the purpose of its defined usage and also shall not be used for public relation, advertisement and suit without the KTR's written approval.

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Dec.17.2007

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Test Date : Jun.30.2008

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909Ho, Namkwang Centlex, 440-4, Cheongcheon-dong,
Bupyeong-gu, Incheon, Korea.

Sample : BIO WASH BALL

TEST RESULTS

TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
Pb	mg/kg		Not Detected	KS M 0016 : 2005 (Apply correspondingly, AAS)(*)
Cd	mg/kg		Not Detected	KS M 0032 : 2004 (Apply correspondingly, ICP)(*)
Hg	mg/kg		Not Detected	KS M 0016 : 2005 (Apply correspondingly, AAS)(*)
Cr(VI)	mg/kg		Not Detected	US EPA Method 3060A : 1996 (Apply correspondingly, UV/Vis)
Total-PBBs	mg/kg		Not Detected	US EPA 8270D(GC/MS)
Mono-BB	mg/kg		Not Detected	US EPA 8270D(GC/MS)
Di-BB	mg/kg		Not Detected	US EPA 8270D(GC/MS)
Tri-BB	mg/kg		Not Detected	US EPA 8270D(GC/MS)
Tetra-BB	mg/kg		Not Detected	US EPA 8270D(GC/MS)
Penta-BB	mg/kg		Not Detected	US EPA 8270D(GC/MS)
Hexa-BB	mg/kg		Not Detected	US EPA 8270D(GC/MS)
Hepta-BB	-		Not Detected	US EPA 8270D(GC/MS)
Octa-BB	mg/kg		Not Detected	US EPA 8270D(GC/MS)
Nona-BB	-		Not Detected	US EPA 8270D(GC/MS)
Deca-BB	mg/kg		Not Detected	US EPA 8270D(GC/MS)
Total-PBDEs	mg/kg		Not Detected	US EPA 8270D(GC/MS)
Mono-BDE	mg/kg		Not Detected	US EPA 8270D(GC/MS)

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Jun.30.2008



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