

TEST REPORT

Product : LEAUTUS 1.5L
Client : WIRACOGA (HK) LIMITED
7/F, CHUANG'S ENTERPRISES BUILDING, 382 LOCKHART ROAD,
WANCHAI HONGKONG

Supplier : MIGRATION HK LTD
TECH CO., LTD.

Date Sample received :
Testing Period :
Date of Report Issue : 2015.12.28
Test Requested : EU & French food grade test
Result : Please refer to next page(s).
Conclusion : When tested as specified, the test results of the submitted samples do
comply with the requirements stated in French Décret 92-631, French
recommendation DGCCRF 2004-64 and its amendment Décret no 2007-766
du 10 mai 2007.
The test results of the submitted sample do comply with The General
Requirement (Article 3) in EU Regulation No. 1935/2004.

PREPARED AND CHECKED BY:

AUTHORIZED BY:

SHERRY YUE
AGRI LAB MANAGERSILVER CAO
AGRI SENIOR MANAGER

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TEST REPORT

Product : LEAUTUS 1.5L
Client : WIRACOGA (HK) LIMITED
7/F, CHUANG'S ENTERPRISES BUILDING, 382 LOCKHART ROAD,
HONG KONG
Supplier : MIGRATION HK LTD
-TECH CO., LTD.
Date Sample received : TEST
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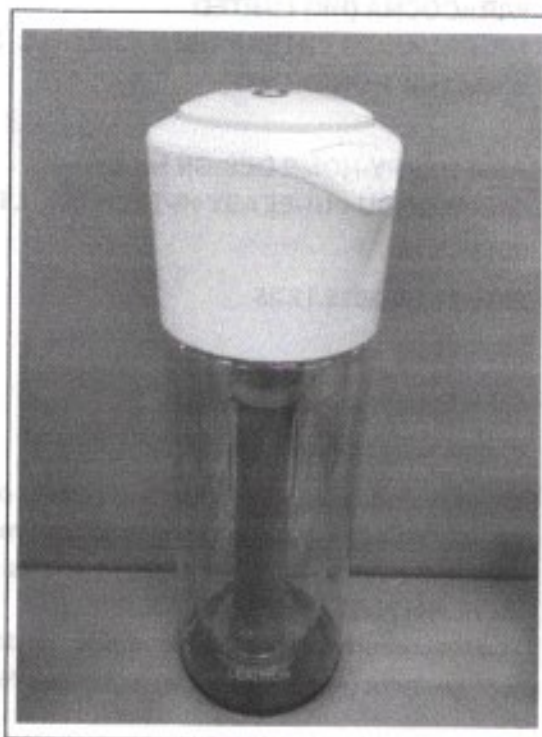
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Picture of the product



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1 Overall Migration Test for Plastic Food Contacting Materials/Articles

As per commission regulation (EU) NO. 10/ 2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food.

I. Test Condition: 10 days at 40 °C

II. Test Results:

Tested Component	Result in mg/dm ²
	20% (v/v) ethanol
001	<1.0
002	1.4
003	<1.0
004	<1.0
Limit in mg/dm ²	10

Remark:

As per client's request, the above condition and food simulant was used for the test.

Tested Components: See component list in the last section of this report.

III. Conclusion:

Tested Sample	Standard	Result
001,002,003,004	European Commission Regulation No. 10/2011 and Regulation No. 1935/2004- Overall migration	Pass

2 Specific Migration of Metal For Plastic Food Contacting Materials/Articles

As per commission regulation (EU) NO. 10/ 2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food.

I. Test Condition: 10 days at 40 °C

II. Test Results:

Tested Component	Results in mg/kg						
	Barium	Cobalt	Copper	Iron	Lithium	Manganese	Zinc
001	<0.1	<0.03	<1	<5	<0.1	<0.1	<5
002	<0.1	<0.03	<1	<5	<0.1	<0.1	<5
003	<0.1	<0.03	<1	<5	<0.1	<0.1	<5
004	<0.1	<0.03	<1	<5	<0.1	<0.1	<5
Limit in mg/kg	1	0.05	5	48	0.6	0.6	25

Remark:

As per client's request, the above condition and food simulant was used for the test.

Tested Components: See component list in the last section of this report.

III. Conclusion:

Tested Sample	Standard	Result
001,002,003,004	European commission regulation NO. 10/2011 annex II and regulation 1935/2004- specific migration of heavy metal.	Pass

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3 Specific Migration of Primary Aromatic Amines Test for Plastic Food Contacting Materials/Articles

As per commission regulation (EU) NO. 10/ 2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food.

I. Test Condition: 10 days at 40 °C

II. Test Results:

Tested Component	Result in mg/kg
	3% (w/v) acetic acid
001	ND
002	ND
003	ND
004	ND
Limit in mg/kg	Not detected

Remark: Detection limit = 0.01 mg/kg, ND= Not detected

As per client's request, the above condition and food simulant was used for the test.

Tested Components: See component list in the last section of this report.

III. Conclusion:

Tested Sample	Standard	Result
001,002,003,004	European commission regulation NO. 10/2011 annex II and regulation 1935/2004- specific migration of Primary Aromatic Amines	Pass

4 Specific Migration of Butadiene for Plastic Food Contacting Materials/Articles

As per commission regulation (EU) NO. 10/ 2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food.

I. Test Condition: 10 days at 40 °C

II. Test Results:

Tested Component	Result in mg/kg
	20% (v/v) ethanol
003	ND
004	ND
Limit in mg/kg	Not detected

Remark: Detection limit = 0.01 mg/kg, ND= Not detected

As per client's request, the above condition and food simulant was used for the test.

Tested Components: See component list in the last section of this report.

III. Conclusion:

Tested Sample	Standard	Result
003,004	European commission regulation NO. 10/2011- specific migration of Butadiene	Pass

5 Specific Migration of Acrylonitrile for Plastic Food Contacting Materials/Articles

As per commission regulation (EU) NO. 10/ 2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food.

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I. Test Condition: 10 days at 40 °C

II. Test Results:

Tested Component	Result in mg/kg
	20% (v/v) ethanol
003	ND
004	ND
Limit in mg/kg	Not detected

Remark: Detection limit = 0.01 mg/kg, ND= Not detected

As per client's request, the above condition and food simulant was used for the test.

Tested Components: See component list in the last section of this report.

III. Conclusion:

Tested Sample	Standard	Result
003,004	European commission regulation NO. 10/2011-specific migration of Acrylonitrile	Pass

6 Polycyclic aromatic hydrocarbons (PAHs) content

By solvent extraction and determined by Gas Chromatography - Mass Spectrometry Detector (GC-MSD).

I. Test Results:

Compound	Result (mg/kg)						
	001	002	003	004	005	006	007
Naphthalene	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	0.4	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND
Benzo[a]anthracene	ND	ND	ND	ND	ND	ND	ND
Benzo[b]fluoranthene	ND	ND	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	ND	ND	ND	ND	ND	ND	ND
Benzo[a]pyrene	ND	ND	ND	ND	ND	ND	ND
Dibenzo[a,h]anthracene	ND	ND	ND	ND	ND	ND	ND
Indeno[1,2,3-cd]pyrene	ND	ND	ND	ND	ND	ND	ND
Benzo[g,h,i]perylene	ND	ND	ND	ND	ND	ND	ND
Benzo[j]fluoranthene	ND	ND	ND	ND	ND	ND	ND
Benzo[e]pyrene	ND	ND	ND	ND	ND	ND	ND
Sum of PAHs	ND	ND	ND	0.4	ND	ND	ND
Limit* in mg/kg	1 *						

Remark: Detection limit = 0.2 mg/kg, ND= Not detected

Tested Components: See component list in the last section of this report.

*Limit referred to in REACH Regulation is for total content of Chrysene, Benzo[a]anthracene, Benzo[b]fluoranthene, Benzo[k]fluoranthene, Benzo[a]pyrene, Dibenzo[a,h]anthracene, Benzo[j]fluoranthene & Benzo[e]pyrene.

II. Conclusion:

Tested Sample	Standard	Result
001,002,003,004,005,006,007	Annex XVII to REACH Regulation- on Polycyclic-aromatic hydrocarbons (PAH)	Pass

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7 Bisphenol-A Content

By solvent extraction and followed by High Performance Liquid Chromatography with Fluorescence detector (HPLC-FLD)/Liquid Chromatography-Mass Spectrometry (LC-MS/MS) analysis.

I. Testing Summary:

Extraction solvent: (chloroform : methanol = 2: 1(v/v))

Ultrasonic bath extraction temperature: 70°C ± 2°C

Extraction time: 60minutes ± 5 minutes

II. Test Results:

Tested Component	Result in mg/kg
001	ND
002	ND
003	ND
004	ND
005	ND
006	ND
007	ND
Limit in mg/kg	Not detected

Remark: Detection limit = 1.0 mg/kg, ND= Not detected

Tested Components: See component list in the last section of this report.

III. Conclusion:

Tested Sample	Standard	Result
001,002,003,004,005,006,007	The French law No 2012-1442 of 24 December 2012 – on Bisphenol-A	Pass

8 Total Migration Test for Silicone Food Contacting Materials/Articles

With reference to French ARRÊTE of November 25, 1992 Article 6, selection of test condition & food simulants by 82/711/EEC, 85/572/EEC, 93/8/EEC and 97/48/EC.

I. Test Condition: 10 days at 40 °C

II. Test Results:

Tested Component	Result in mg/dm ²
	Distilled water
005	1.1
006	<1.0
007	1.3
Limit in mg/dm ²	10

Remark:

As per client's request, the above condition and food simulant was used for the test.

Tested Components: See component list in the last section of this report.

III. Conclusion:

Tested Sample	Standard	Result
005,006,007	French ARRÊTE of November 25, 1992 Article 6 relating to materials and objects made of silicone elastomers intended to come into contact with food products on total migration	Pass

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9 Specific Migration of Tin for Silicone Food Contacting Materials/Articles

A migration test was performed on the tested sample at appropriate time and temperature and then the test solution was analysed for Tin content by Inductively Coupled Plasma Spectrometry (ICP).

I. Test Results:

Tested Component	Result in mg/kg
005	ND
006	ND
007	ND
Limit in mg/kg	0.1

Remark: Detection limit = 0.05 mg/kg, ND= Not detected

Tested Components: See component list in the last section of this report.

II. Conclusion:

Tested Sample

005,006,007

Standard

French arrêté of November 25, 1992 article 6 relating to materials and objects made of silicone elastomers intended to come into contact with food products of specific migration of Tin

Result

Pass

10 Volatile Organic Matter

The test is performed by gravimetric analysis.

I. Test Results:

Tested Component	Result in %w/w
005	0.2
006	<0.1
007	<0.1
Limit in %w/w	0.5

Remark:

Tested Components: See component list in the last section of this report.

II. Conclusion:

Tested Sample

005,006,007

Standard

French arrêté of November 25, 1992 article 6 relating to materials and objects made of silicone elastomers intended to come into contact with food products on Volatile Organic Matter

Result

Pass

11 Peroxides

The test is performed by chemical analysis.

I. Test Results:

Tested Component	Result
005	Negative
006	Negative

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007	Negative
Limit	No positive reaction to peroxides

Remark:

Tested Components: See component list in the last section of this report.

II. Conclusion:

Tested Sample

Standard

Result

005,006,007

French arrêté of November 25, 1992 article 6
relating to materials and objects made of silicone
elastomers intended to come into contact with
food products on peroxides

Pass

Intertek Testing Services Ltd., Shanghai

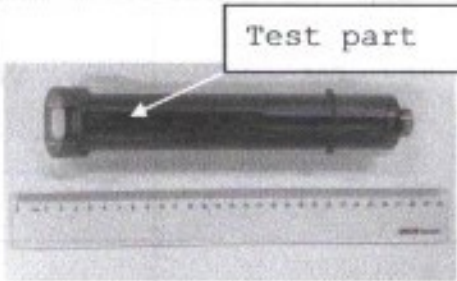
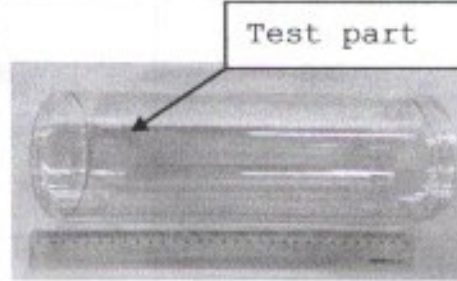
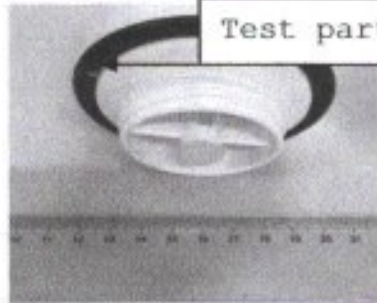
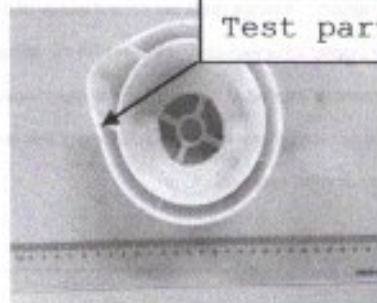
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Photo of tested components:

Test item	Description	Photo
001	TRITAN PLASTIC (BLUE)	
002	TRITAN PLASTIC (TRANSPARENT)	
003	ABS PLASTIC (BLACK)	
004	ABS PLASTIC (WHITE)	

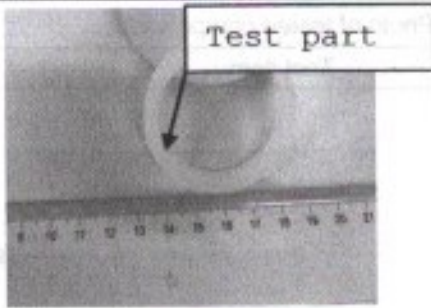
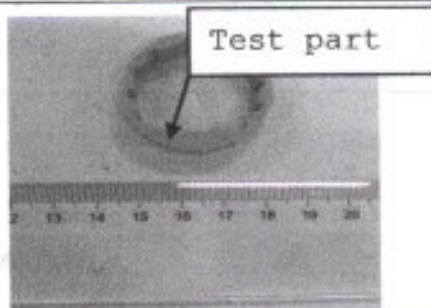
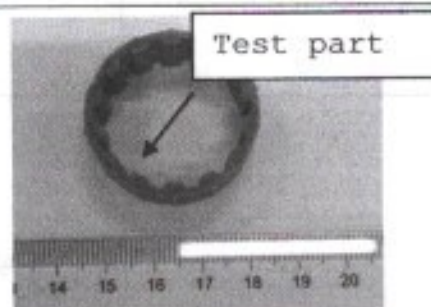
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005	WHITE SEAL RING	
006	BLUE TIME RING	
007	GRAY TIME RING	

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End of Report

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Test Report

Number: AGT161100110SH

Applicant: WIRACOGA (HK) LIMITED
CHUANG'S ENTERPRISES BUILDING, 382 LOCKHART ROAD,
WANCHAI, HONGKONG.

Date: 30 Nov, 2016

Sample Description:

Sample Name	:	Ceramic Column
Test Purpose	:	Entrust Test
Sample Specification	:	/
Sample Character	:	Solid
Brand	:	/
Sample Quantity	:	4 pieces
Production Date	:	/
Batch No./Code	:	/
Manufacturer	:	/
Note	:	/

MIGRATION
TEST

Tests Conducted:

As requested by the applicant, for details refer to attached page(s).

To be continued

Authorized By:

Cao Lei
General Manager
Shanghai Orient Intertek Testing Services Ltd

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Test Report

Number: AGT161100110SH

1 Leachable Lead and Cadmium Content

As per French DGCCRF Information Note 2004-64, by Atomic Absorption Spectrophotometric analysis.

I. Test Results:

Tested Component	Surface Area (dm ²)	Leaching Volume (mL)	Result (mg/dm ²)	
			Lead	Cadmium
white column	1.42	900	<0.05	<0.03
Limit (category 1)	/		0.8	0.07

Remark:

Tested Components: See component list in the last section of this report.

II. Conclusion:Tested SampleStandardResult

001

French DGCCRF Information Note 2004-64 on leachable lead and cadmium content for glassware / ceramic ware and DM/4B/COM/002

Pass

2 Migration of Aluminium, Cobalt and ArsenicTest Method: Sample with 4% acetic acid simulant was conditioned at 22 °C for 24 hours, 3 successive migrations were taken and solutions of 3rd migration were analyzed by ICP/MS.**I. Test Results:**

Tested Component	Leaching Volume (mL)	Result (mg/kg of food simulant)		
		Aluminium	Cobalt	Arsenic
(1)	900	<0.1	<0.005	<0.002
(2)	900	<0.1	<0.005	<0.002
(3)	900	<0.1	<0.005	<0.002
(4)	900	<0.1	<0.005	<0.002
Average	/	<0.1	<0.005	<0.002
Limit	/	1.0	0.02	ND(<0.002)

Remark:

Tested Components: See component list in the last section of this report.

II. Conclusion:Tested SampleStandardResult

001

French DGCCRF DM/4B/COM/002 & EC Regulation No. 1935/2004 - Migration of Aluminium, Cobalt and Arsenic content

PASS

3 Migration of Antimony, Barium, Beryllium, Chromium, Copper, Manganese, Mercury, Nickel, Selenium and ThalliumTest Method: Sample with 4% acetic acid simulant was conditioned at 22 °C for 24 hours, 3 successive migrations were taken and solutions of 3rd migration were analyzed by ICP/MS.

Test Report

Number: AGT161100110SH

II. Test Results:

Elements	Leaching Volume (mL)	Result (mg/kg of food simulant)				
		Tested Component (1)	Tested Component (2)	Tested Component (3)	Tested Component (4)	Tested Component Average
Antimony	900	<0.01	<0.01	<0.01	<0.01	<0.01
Barium	900	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium	900	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	900	<0.02	<0.02	<0.02	<0.02	<0.02
Copper	900	<0.5	<0.5	<0.5	<0.5	<0.5
Manganese	900	<0.1	<0.1	<0.1	<0.1	<0.1
Mercury	900	<0.003	<0.003	<0.003	<0.003	<0.003
Nickel	900	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium	900	<0.1	<0.1	<0.1	<0.1	<0.1
Thallium	900	<0.001	<0.001	<0.001	<0.001	<0.001

Date of Sample Receiving: 22 Nov. 2016

Testing Period: 22 Nov. 2016 To 30 Nov. 2016

End of Report

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PUMP
TEST

Test Report

Report Number: 151103024GZU-001

Applicant Name : Huiracocha(HK)Limited
Applicant Address : 7/F, Chuang's Entreprises Building 382 Lockhart
Road, Wanchai, Hong Kong
Attn : Marconi Pierre

Report Date : Nov 26, 2015

Sample Description: See the table below

Model	Sample Description
Leatus 1.5L	Leatus-water filtration device

This report pertains only to the sample models listed in the Product Description section of this report. The evaluated production model was submitted via the client's own courier on Nov 02, 2015. These samples were evaluated between Nov 03, 2015 and Nov 26, 2015 and were received in good condition at the Intertek Guangzhou laboratory located at Block E, No.7-2 Guang Dong Software Science Park, Cai Pin Road, Science city, Guangzhou Economic Development Zone, Guangzhou, P. R. China.

Conclusion: The submitted samples were tested according to the requirements of client and the test results showed in the following pages.

Should you have any query on this report, you may contact at Daisy.He@Intertek.com

Approved by:


Starry Li
Supervisor

Prepared by:


Charles Luo
Project Engineer

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TTRF-PERF-02-EN Approved Date: May 5, 2014

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
Block E, No.7-2 Guang Dong Software Science Park, Caipin Road, Guangzhou Science City, GETDD, Guangzhou, China
Tel: 86 20 8213 9688 Fax: 86 20 3205 7538 www.intertek.com

Test Report

Report Number: 151103024GZU-001

Test Items, Method and Results:

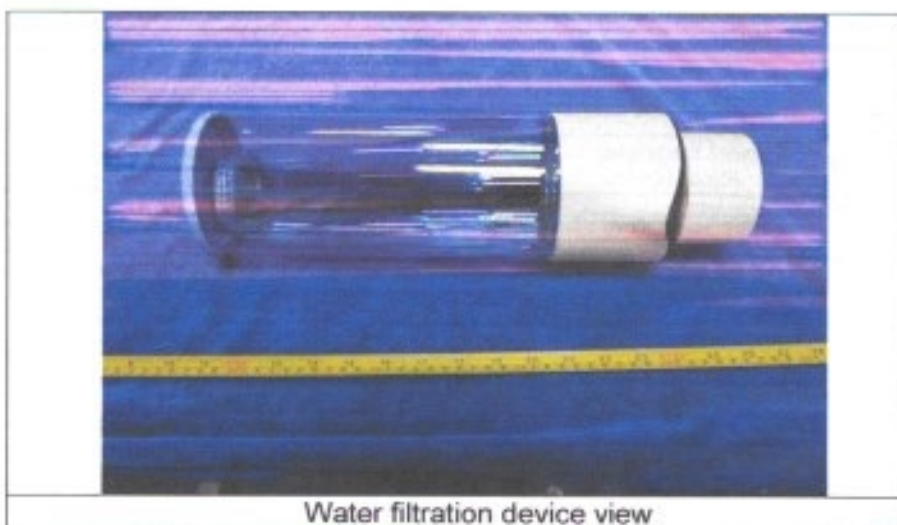
*When determining the test result, measurement uncertainty has been considered.**If related to subcontract, the remark* for the test items conducted by a subcontractor.*

Test Items	Method - Test	Results - Remark	Verdict
Pumping test	<p>Test method: Put the pump to the suitable equipment, and then let the pump work 30,000 cycles.</p> <p>Test requirement: The pump should be able to withstand 30,000 pumping actions.</p>	No crack, broken or permanent distortion after 30,000 cycles test.	Pass

Test Report

Report Number: 151103024GZU-001

**Appendix A
Sample Photo**



Water filtration device view

Test Report**Report Number:** 151103024GZU-001**Revision Summary**

DD/MM/YYYY	Project Engineer/ Reviewer	Page #	Project No	Reason for revision
26/11/2015	Charles Luo/Starry Li	—	151103024GZU	First issue

The End of The Report

Test Report

Number: AGT161100045SH

Applicant: WIRACOGA (HK) LIMITED
CHUANG'S ENTERPRISES BUILDING, 382 LOCKHART ROAD,
WANCHAI, HONGKONG.

Date: 16 Nov., 2016

Sample Description:

Sample Name	: Filter
Test Purpose	: Entrust Test
Sample Specification	: /
Sample Character	: Solid
Brand	: /
Sample Quantity	: 1 pieces
Production Date	: /
Batch No./Code	: /
Manufacturer	: /
Note	: /

HEAVY METAL
LEAD

Tests Conducted:

As requested by the applicant, for details refer to attached page(s).

To be continued

Authorized By:

Cao Lei
General Manager
Shanghai Orient Intertek Testing Services
Company Ltd.

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Test Report

Number: AGT161100045SH

1 Challenge test of chloroform

I. Test Condition: Source water (purified water) is spiked with chemical substances of Lead (Challenge concentration is listed in table 1). Prepared test water is filtered by the individual device, and the samples are collected before and after 1L (one pump) filtration.

Table 1. Challenge concentration of each parameter

Name of Compound	Influent challenge Conc.
Lead	150 µg/L

Note: The concentration in the table is theoretical value.

II. Test Results:

Table 2. Challenge test results

Test Component	Result					
	Method	Unit	LOQ	Source water spiked C0	Spiked source water after filtering C	Reduction (%) [*]
Lead Reduction						
Resin	GB/T 5750.6-2006	µ g/L	5	148	<5	>96.6

Remark:

- Source water used in this challenge test is purified water.
- For each compound, the removal percentage will be calculated using the following formula:

$$\text{Reduction\%} = 100 \times \left(1 - \frac{C}{C^0} \right)$$

Where

C is the concentration measured in the spiked source water after filtering.

C0 is the concentration measured in the source water spiked.

- If C is below the Limit of Quantification (LOQ) of the analytical method, result will indicate "Reduction% > XX%" where XX% is the Reduction% calculated at the LOQ level. For example, Lead is not detected in the spiked source water after filtering (Less than LOQ, <5 µg/L) and the Reduction is expressed as ">99%" ($100 \times (1 - 5/530)$), but not "100%".

Date of Sample Receiving: 10 Nov, 2016

Testing Period: 10 Nov, 2016 To 15 Nov, 2016

End of Report

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Telephone: +86 21 61206060 Facsimile: +86 21 61276299

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Test Report

Number: AGT161200031SH

Applicant: WIRACOGA (HK) LIMITED
CHUANG'S ENTERPRISES BUILDING, 382 LOCKHART ROAD,
WANCHAI, HONGKONG.

Date: 19 Dec, 2016

Sample Description:

Sample Name	: Filter
Test Purpose	: Entrust Test
Sample Specification	: /
Sample Character	: Solid
Brand	: /
Sample Quantity	: 14 pieces
Production Date	: /
Batch No./Code	: /
Manufacturer	: /
Note	: /

HEAVY METALS

I METALS

Tests Conducted:

As requested by the applicant, for details refer to attached page(s).

To be continued

Authorized By:

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General Manager
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Test Report

Number: AGT161200031SH

1 Challenge test of heavy metals

I. Test Condition: Source water (purified water) is spiked with chemical substances of heavy metals (Challenge concentration is listed in table 1). Prepared test water is filtered by the individual device, and the samples are collected before and after 1L (one pump) filtration.

Table 1. Challenge concentration of each parameter

Name of Compound	Influent challenge Conc.
Heavy metals	150 μ g/L

Note: The concentration in the table is the oretical value.

II. Test Results:

Table 2. Challenge test results

Heavy Metals	Result					
	Method	Unit	LOQ	Source water spiked C0	Spiked source water after filtering C	Reduction (%)*
Heavy Metal Reduction						
Cadmium	GB/T 5750.6-2006	μ g/L	50	152	58	61.8
Chromium				146	37	74.6
Copper				165	17	89.7
Nickel				156	27	82.7
Selenium				163	45	72.4
Vanadium				180	47	73.9
Zinc				161	48	70.2

Remark:

- Source water used in this challenge test is purified water.
- For each compound, the removal percentage will be calculated using the following formula:

$$Reduction\% = 100 \times \left(1 - \frac{C}{C^0} \right)$$

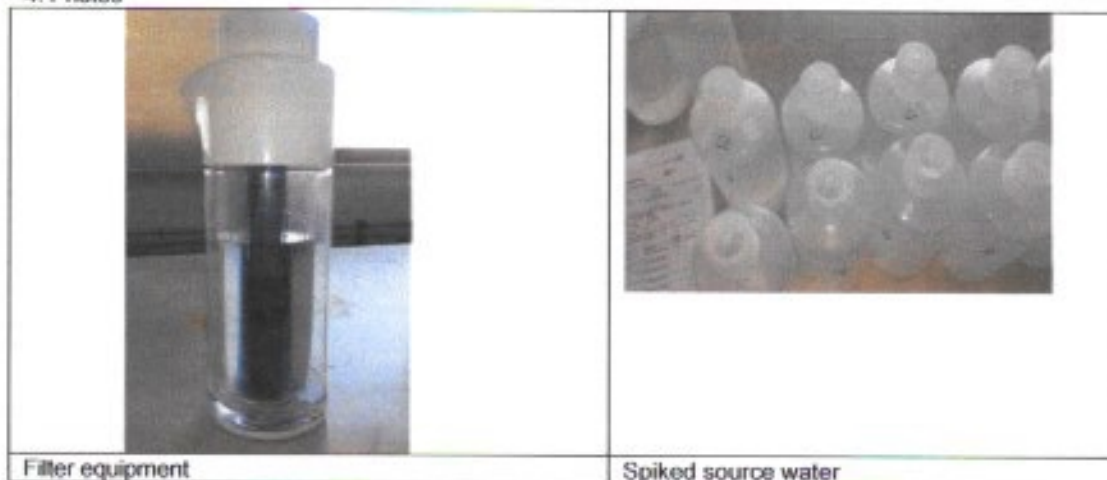
Where

C is the concentration measured in the spiked source water after filtering.

C0 is the concentration measured in the source water spiked.

3. If C is below the Limit of Quantification (LOQ) of the analytical method, result will indicate "Reduction% > XX%" where XX% is the Reduction% calculated at the LOQ level. For example, Lead is not detected in the spiked source water after filtering (Less than LOQ, <5 μ g/L) and the Reduction is expressed as ">99%" ($100 \times (1 - 5/530)$), but not "100%".

4. Photos



Filter equipment

Spiked source water

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Test Report

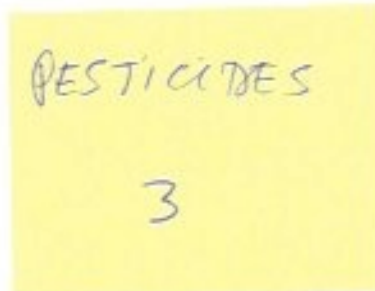
Number: AGT161200002SH

Applicant: WIRACOGA (HK) LIMITED
CHUANG'S ENTERPRISES BUILDING, 382 LOCKHART ROAD,
WANCHAI, HONGKONG.

Date: 08 Dec., 2016

Sample Description:

Sample Name	:	Filtering water
Test Purpose	:	Entrust Test
Sample Specification	:	/
Sample Character	:	Liquid
Brand	:	/
Sample Quantity	:	6 pieces
Production Date	:	/
Batch No./Code	:	/
Manufacturer	:	/
Note	:	/



Tests Conducted:

As requested by the applicant, for details refer to attached page(s).

To be continued

Authorized By:

Cao Lei
General Manager
Shanghai Orient Intertek Testing Services
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Test Report

Number: AGT161200002SH

1 Challenge test of chloroform

I. Test Condition: Source water (purified water) is spiked with chemical substances of pesticides (Challenge concentration is listed in table 1). Prepared test water is filtered by the individual device, and the samples are collected before and after 1L (one pump) filtration.

Table 1. Challenge concentration of each parameter

Name of Compound	Influent challenge Conc.
Bifenthrin	10 µg/L
Chlorpyrifos	10 µg/L
DDT	10 µg/L

Note: The concentration in the table is theoretical value.

II. Test Results:

Table 2. Challenge test results

Test Component	Result					
	Method	Unit	LOQ	Source water spiked C0	Spiked source water after filtering C	Reduction (%)*
Bifenthrin Reduction						
Filter	GB/T 5750.9-2006	µ g/L	0.1	1.4	<0.1	>92.8
Chlorpyrifos Reduction						
Filter	GB/T 5750.9-2006	µ g/L	0.1	1.0	<0.1	>90.0
DDT Reduction						
Filter	GB/T 5750.9-2006	µ g/L	0.1	1.3	<0.1	>92.3

Remark:

- Source water used in this challenge test is purified water.
- For each compound, the removal percentage will be calculated using the following formula:

$$\text{Reduction\%} = 100 \times \left(1 - \frac{C}{C^0} \right)$$

Where

C is the concentration measured in the spiked source water after filtering.

C0 is the concentration measured in the source water spiked.

3. If C is below the Limit of Quantification (LOQ) of the analytical method, result will indicate "Reduction% > XX%" where XX% is the Reduction% calculated at the LOQ level. For example, Lead is not detected in the spiked source water after filtering (Less than LOQ, <5 µ g/L) and the Reduction is expressed as ">99%" ($100 \times (1 - 5/530)$), but not "100%".

Date of Sample Receiving: 01 Dec, 2016

Testing Period: 01 Dec, 2016 To 07 Dec, 2016

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Test Report

Number: AGT170300142SH

Applicant: WIRACOA (HK) LIMITED
CHUANG'S ENTERPRISES BUILDING, 382 LOCKHART ROAD,
WANCHAI, HONGKONG.

Date: 04 Apr., 2017

Sample Description:

Sample Name	:	Filtering water
Test Purpose	:	Entrust Test
Sample Specification	:	/
Sample Character	:	Liquid
Brand	:	/
Sample Quantity	:	6 pieces
Production Date	:	/
Batch No./Code	:	/
Manufacturer	:	/
Note	:	/

ANTIBIOTICS

Tests Conducted:

As requested by the applicant, for details refer to attached page(s).

To be continued

Authorized By:

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General Manager
Shanghai Orient Intertek Testing Services
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Telephone: +86 21 61208080 Facsimile: +86 21 61276299
www.intertek.com www.intertek.com.cn

Test Report

Number: AGT170300142SH

1 Challenge test of chloroform

I. Test Condition: Source water (purified water) is spiked with chemical substances of antibiotic (Challenge concentration is listed in table 1). Prepared test water is filtered by the individual device, and the samples are collected before and after 1L (one pump) filtration.

Table 1. Challenge concentration of each parameter

Name of Compound	Influent challenge Conc.
Chlortetracycline	500 µg/L
Enrofloxacin	500 µg/L

Note: The concentration in the table is theoretical value.

II. Test Results:

Table 2. Challenge test results

Test Component	Result					
	Method	Unit	LOQ	Source water spiked C0	Spiked source water after filtering C	Reduction (%)*
Chlortetracycline Reduction						
Filter	LC-MS/MS Method	µ g/L	0.1	519.1	167.7	67.7
Enrofloxacin Reduction						
Filter	LC-MS/MS Method	µ g/L	0.1	91.97	14.59	84.1

Remark:

1. Source water used in this challenge test is purified water.
2. For each compound, the removal percentage will be calculated using the following formula:

$$Reduction\% = 100 \times \left(1 - \frac{C}{C^0} \right)$$

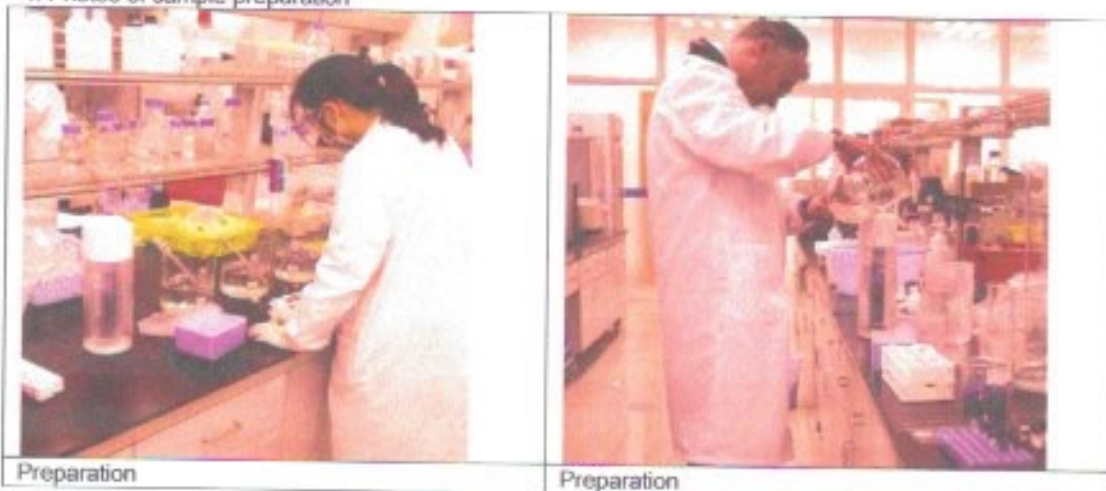
Where

C is the concentration measured in the spiked source water after filtering.

C0 is the concentration measured in the source water spiked.

3. If C is below the Limit of Quantification (LOQ) of the analytical method, result will indicate "Reduction% > XX%" where XX% is the Reduction% calculated at the LOQ level. For example, Lead is not detected in the spiked source water after filtering (Less than LOQ, <5 µ g/L) and the Reduction is expressed as ">99%" (100 × (1-5/530)), but not "100%".

4. Photos of sample preparation



Test Report

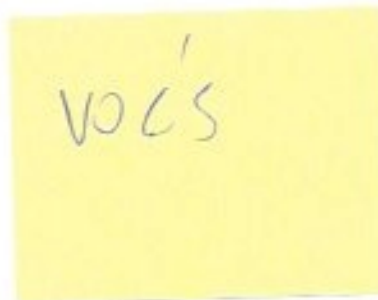
Number: AGT160700054SH

Applicant: WIRACOGHA (HK) LIMITED
CHUANG'S ENTERPRISES BUILDING, 382 LOCKHART ROAD,
WANCHAI, HONGKONG.

Date: 22 July, 2016

Sample Description:

Sample Name	: Black Resin
Test Purpose	: Entrust Test
Sample Specification	: /
Sample Character	: Solid
Brand	: /
Sample Quantity	: 8 pieces
Production Date	: /
Batch No./Code	: /
Manufacturer	: /
Note	: /



Tests Conducted:

As requested by the applicant, for details refer to attached page(s).

To be continued

Authorized By:

Cao Lei
General Manager
Shanghai Orient Intertek Testing Services
Company Ltd.

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Test Report

Number: AGT160700054SH

1 Challenge test of chloroform

I. Test Condition: Source water (purified water) is spiked with chemical substances of chloroform and Lead (Challenge concentration is listed in table 1). Prepared test water is filtered by the individual device, and the samples are collected before and after 1L (one pump) filtration.

Table 1. Challenge concentration of each parameter

Name of Compound	Influent challenge Conc.
Chloroform	300 µg/L
Lead	500 µg/L

Note: The concentration in the table is theoretical value.

II. Test Results:

Table 2. Challenge test results

Table 2. Challenge test results						
Test Component	Result					
	Method	Unit	LOQ	Source water spiked C0	Spiked source water after filtering C	Reduction (%)*
Chloroform Reduction						
1#	GB/T 5750.8-2006	µ g/L	0.5	251.45	66.17	73.7
2#					128.81	48.8
3#					164.76	34.5
4#					158.21	37.1
5#					174.60	30.6
6#					1.80	99.3
7#					82.67	67.1
8#					186.58	25.8
Lead Reduction						
7#	GB/T 5750.6-2006	µ g/L	5	530	<5	>99
8#					180	66.0

Remark:

- Source water used in this challenge test is purified water.
- For each compound, the removal percentage will be calculated using the following formula:

$$Reduction\% = 100 \times \left(1 - \frac{C}{C^0} \right)$$

Where

C is the concentration measured in the spiked source water after filtering.

C0 is the concentration measured in the source water spiked.

3. If C is below the Limit of Quantification (LOQ) of the analytical method, result will indicate "Reduction% > XX%" where XX% is the Reduction% calculated at the LOQ level. For example, Lead is not detected in the spiked source water after filtering (Less than LOQ, <5 µ g/L) and the Reduction is expressed as ">99%" (100 × (1 - 5/530)), but not "100%".

Date of Sample Receiving: 12 July, 2016

Testing Period: 12 July, 2016 To 18 July, 2016

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食品實驗室-台北
FOOD LAB-TAIPEI
檢驗報告
Test Report

BACTERIA

E. coli

Report No. : FA/2012/60875A-09

Page : 1 Of 1

Date : 2012/06/22



The following merchandise was submitted & identified by the client as:

Product Name:

Application:

Date of Sample Received: 2012/06/08

Date of Testing: 2012/06/12

Date of Reissuing Report: 2012/06/29

Test Requested & Method: ASTM E2149

Test Results:

***Escherichia coli* ATCC NO. 8739**

	0sec (Initial Inoculation) (CFU/ml)	1hr (CFU/ml)	Reduction(%)
A	---	<50	99.9%
B	3.0×10^5	3.0×10^5	
C	---	---	

A: CFU/mL for the flask containing the treated substrate after the specified contact time

B: CFU/mL for the "inoculum only" flask after the specified contact time

C: CFU/mL for the flask containing the untreated substrate after the specified contact time


Sonny Ren, Ph.D.
Signed for and on behalf of
SGS Taiwan Ltd.

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食品實驗室-台北
FOOD LAB-TAIPEI
檢驗報告
Test Report

BACTERIA

DIST

Report No. : FA/2012/60875A-07

Page : 1 Of 1

Date : 2012/06/22



The following merchandise was submitted & identified by the client as:

Product Name:

Application:

Date of Sample Received: 2012/06/08

Date of Testing: 2012/06/12

Date of Reissuing Report: 2012/06/29

Test Requested & Method: ASTM E2149

Test Results:

Staphylococcus aureus ATCC NO. 6538

	0sec (Initial Inoculation) (CFU/ml)	1hr (CFU/ml)	Reduction(%)
A	---	1.9×10^3	99.3%
B	2.8×10^5	2.8×10^5	
C	---	---	

A: CFU/mL for the flask containing the treated substrate after the specified contact time

B: CFU/mL for the "inoculum only" flask after the specified contact time

C: CFU/mL for the flask containing the untreated substrate after the specified contact time

Sonny Ren, Ph.D.
Signed for and on behalf of
SGS Taiwan Ltd.

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食品實驗室-台北
FOOD LAB-TAIPEI
檢驗報告
Test Report

BACTERIA

Report No. : FA/2012/60875A-11

Page : 1 Of 1

Date : 2012/06/22



The following merchandise was submitted & identified by the client as:

Product Name:

Application:

Date of Sample Received: 2012/06/08

Date of Testing: 2012/06/12

Date of Reissuing Report: 2012/06/29

Test Requested & Method: ASTM E2149

Test Results:


Pseudomonas aeruginosa ATCC NO. 9027

	0sec (Initial Inoculation) (CFU/ml)	1hr (CFU/ml)	Reduction(%)
A	---	<50	99.9%
B	1.9×10^5	1.9×10^5	
C	---	---	

A: CFU/mL for the flask containing the treated substrate after the specified contact time

B: CFU/mL for the "inoculum only" flask after the specified contact time

C: CFU/mL for the flask containing the untreated substrate after the specified contact time


Sonny Ren, Ph.D.
Signed for and on behalf of
SGS Taiwan Ltd.

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食品實驗室-台北
FOOD LAB-TAIPEI
檢驗報告
Test Report

BACTERIA

Report No. : FA/2012/60875A-10

Page : 1 Of 1

Date : 2012/06/22



The following merchandise was submitted & identified by the client as:

Product Name:

Application:

Date of Sample Received: 2012/06/08

Date of Testing: 2012/06/12

Date of Reissuing Report: 2012/06/29

Test Requested & Method: ASTM E2149

Test Results:

***Klebsiella pneumoniae* ATCC NO. 4352**

	<u>0sec (Initial Inoculation)</u> (CFU/ml)	<u>1hr</u> (CFU/ml)	<u>Reduction(%)</u>
A	---	<50	99.9%
B	2.7×10^5	2.7×10^5	
C	---	---	

A: CFU/mL for the flask containing the treated substrate after the specified contact time

B: CFU/mL for the "inoculum only" flask after the specified contact time

C: CFU/mL for the flask containing the untreated substrate after the specified contact time


Sonny Ren, Ph.D.
Signed for and on behalf of
SGS Taiwan Ltd.

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食品實驗室-台北
FOOD LAB-TAIPEI
檢驗報告
Test Report

BACTERIA

Report No. : FA/2012/60875A-08

Page : 1 Of 1

Date : 2012/06/22



The following merchandise was submitted & identified by the client as:

Product Name:

Application:

Date of Sample Received: 2012/06/08

Date of Testing: 2012/06/12

Date of Reissuing Report: 2012/06/29

Test Requested & Method: ASTM E2149

Test Results:

Methicillin Resistant *Staphylococcus aureus* ATCC NO. 33591

	<u>0sec (Initial Inoculation)</u> (CFU/ml)	<u>1hr</u> (CFU/ml)	<u>Reduction(%)</u>
A	---	5.3×10^2	99.8%
B	2.4×10^5	2.4×10^5	
C	---	---	

A: CFU/mL for the flask containing the treated substrate after the specified contact time

B: CFU/mL for the "inoculum only" flask after the specified contact time

C: CFU/mL for the flask containing the untreated substrate after the specified contact time

Sonny Ren, Ph.D.

Signed for and on behalf of _____

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