

# 檢測報告 Test Report

報告編號 RHS05G018767001E  
Report No. RHS05G018767001E

第 1 頁 共 10 頁  
Page 1 of 10

申請單位 士筌實業股份有限公司  
Applicant PEACCO ENTERPRISE CORPORATION  
地址 24261 新北市新莊區雙鳳路 123 號 5 樓  
Address 5F, NO. 123, SHUANGFONG RD., XINZHUANG DIST, NEW TAIPEI CITY 24261,  
TAIWAN (R.O.C)

以下測試之樣品及樣品信息由申請者提供並確認

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

樣品名稱 比可無鉻耐蝕金屬表面處理液  
Sample Name PEACCO NON-CHROMATE METAL SURFACE TREATMENT SOLUTIONS  
樣品型號 Part No. N7111-1  
樣品接收日期 2014.06.03  
Sample Received Date Jun.3,2014  
樣品檢測日期 2014.06.03 - 2014.06.06  
Testing Period Jun.3,2014 to Jun.6,2014  
檢測要求 根據客戶要求, 對所提交樣品中的鉛(Pb), 鎘(Cd), 汞(Hg), 六價鉻(Cr(VI)), 多溴聯苯(PBBs), 多溴二苯醚(PBDEs), 六溴環十二烷(HBCDD), 鄰苯二甲酸酯, 氟(F), 氯(Cl), 溴(Br), 碘(I)進行測試。

Test Requested As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Hexabromocyclododecane (HBCDD), Phthalates, Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I) in the submitted sample(s).

檢測依據和檢測結果：請參見下頁

Test Method & Test Result : Please refer to following pages.

主 檢  
Tested by Chen Lijuan

審 核  
Reviewed by Chen Kaimin

批 准  
Approved by Su Hongwei

日 期  
Date 2014.06.06



Su Hongwei  
Laboratory Manager

No. 1357455343

深圳市華測檢測技術股份有限公司上海分公司

上海市浦東新區新金橋路 1996 號

Centre Testing International Co.,Ltd. Shanghai Branch No.1996,New Jinqiao Road, Pudong District,Shanghai,China

# 檢測報告

## Test Report

報告編號 RHS05G018767001E  
Report No. RHS05G018767001E

第 2 頁 共 10 頁  
Page 2 of 10

\*\*\*\*\*  
結論 Conclusion

測試樣品 Tested Sample	依據指令 According to directive	結果 Result
提交樣品 Submitted Sample	2011/65/EU*	合格 Pass

\*\*\*\*\*  
\*2011/65/EU 為歐盟 RoHS 指令 (2002/95/EC) 的重訂指令。該指令對電子電器產品中的特定有毒有害物質 (鉛 (Pb), 鎘 (Cd), 汞 (Hg), 六價鉻 (Cr(VI)), 多溴聯苯 (PBBs), 多溴二苯醚 (PBDEs)) 限制使用。

合格表示檢測結果不超過歐盟 RoHS 指令 2011/65/EU 要求的限值。

\*2011/65/EU is a new version of RoHS Directive (2002/95/EC), which focuses on restriction of the use of certain hazardous substances (Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs)) in electrical and electronic equipment.

Pass means that the results shown on the report do not exceed the limits set by RoHS Directive 2011/65/EU.

# 檢測報告

## Test Report

 報告編號 RHS05G018767001E  
 Report No. RHS05G018767001E

 第 3 頁 共 10 頁  
 Page 3 of 10

### 檢測依據 Test Method

測試項目 Tested Item	測試方法 Test Method	測試儀器 Measured Equipment
鉛(Pb) Lead (Pb)	IEC 62321-5:2013 Ed.1.0	ICP-OES
鎘(Cd) Cadmium (Cd)	IEC 62321-5:2013 Ed.1.0	ICP-OES
汞(Hg) Mercury (Hg)	IEC 62321-4:2013 Ed.1.0	ICP-OES
六價鉻(Cr(VI)) Hexavalent Chromium (Cr(VI))	IEC 62321:2008 Ed.1 Annex C	UV-Vis
多溴聯苯(PBBs) Polybrominated Biphenyls (PBBs)	IEC 62321:2008 Ed.1 Annex A	GC-MS
多溴二苯醚(PBDEs) Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321:2008 Ed.1 Annex A	GC-MS
氟(F) Fluorine(F)	參考 BS EN 14582:2007 Refer to BS EN 14582:2007	IC
氯(Cl) Chlorine Cl)	參考 BS EN 14582:2007 Refer to BS EN 14582:2007	IC
溴(Br) Bromine(Br)	參考 BS EN 14582:2007 Refer to BS EN 14582:2007	IC
碘(I) Iodine(I)	參考 BS EN 14582:2007 Refer to BS EN 14582:2007	IC
六溴環十二烷(HBCDD) Hexabromocyclododecane (HBCDD)	參考 US EPA3550C:2007 Refer to US EPA3550C:2007	GC-MS
鄰苯二甲酸酯 Phthalates	參考 EN 14372:2004(E) Refer to EN 14372:2004(E)	GC-MS

# 檢測報告

## Test Report

 報告編號 RHS05G018767001E  
 Report No. RHS05G018767001E

 第 4 頁 共 10 頁  
 Page 4 of 10

### 檢測結果 Test Result

測試項目 Tested Item(s)	結果 Result	方法檢測限 MDL	2011/65/EU 指令限值 Limit of Directive 2011/65/EU
鉛(Pb) Lead (Pb)	N.D.	2mg/kg	1000 mg/kg
鎘(Cd)Cadmium (Cd)	N.D.	2mg/kg	100 mg/kg
汞(Hg)Mercury (Hg)	N.D.	2mg/kg	1000 mg/kg
六價鉻(Cr(VI)) Hexavalent Chromium (Cr(VI))	N.D.	2mg/kg	1000 mg/kg

測試項目 Tested Item(s)	結果 Result	方法檢測限 MDL	2011/65/EU 指令限值 Limit of Directive 2011/65/EU
<b>多溴聯苯 Polybrominated Biphenyls(PBBs)</b>			
一溴聯苯 Monobromodiphenyl	N.D.	5mg/kg	1000 mg/kg
二溴聯苯 Dibromobiphenyl	N.D.	5mg/kg	
三溴聯苯 Tribromobiphenyl	N.D.	5mg/kg	
四溴聯苯 Tetrabromobiphenyl	N.D.	5mg/kg	
五溴聯苯 Pentabromobiphenyl	N.D.	5mg/kg	
六溴聯苯 Hexabromobiphenyl	N.D.	5mg/kg	
七溴聯苯 Heptabromobiphenyl	N.D.	5mg/kg	
八溴聯苯 Octabromobiphenyl	N.D.	5mg/kg	
九溴聯苯 Nonabromobiphenyl	N.D.	5mg/kg	
十溴聯苯 Decabromobiphenyl	N.D.	5mg/kg	
<b>多溴二苯醚 Polybrominated Diphenyl Ethers(PBDEs)</b>			
一溴二苯醚 Monobromodiphenyl ether	N.D.	5mg/kg	1000 mg/kg
二溴二苯醚 Dibromobiphenyl ether	N.D.	5mg/kg	
三溴二苯醚 Tribromobiphenyl ether	N.D.	5mg/kg	
四溴二苯醚 Tetrabromobiphenyl ether	N.D.	5mg/kg	
五溴二苯醚 Pentabromobiphenyl ether	N.D.	5mg/kg	
六溴二苯醚 Hexabromobiphenyl ether	N.D.	5mg/kg	
七溴二苯醚 Heptabromobiphenyl ether	N.D.	5mg/kg	
八溴二苯醚 Octabromobiphenyl ether	N.D.	5mg/kg	
九溴二苯醚 Nonabromobiphenyl ether	N.D.	5mg/kg	
十溴二苯醚 Decabromobiphenyl ether	N.D.	5mg/kg	

# 檢測報告

## Test Report

報告編號 RHS05G018767001E  
Report No. RHS05G018767001E

第 5 頁 共 10 頁  
Page 5 of 10

測試項目 Tested Item(s)	結果 Result	方法檢測限 MDL
<b>鹵素 Halogen</b>		
氟 Fluorine (F)	N.D.	10mg/kg
氯 Chlorine (Cl)	N.D.	10mg/kg
溴 Bromine (Br)	N.D.	10mg/kg
碘 Iodine (I)	N.D.	10mg/kg

測試項目 Tested Item	結果 Result	方法檢測限 MDL
六溴環十二烷(HBCDD) Hexabromocyclododecane (HBCDD)	N.D.	5mg/kg

測試項目 Tested Item(s)	結果 Result	方法檢測限 MDL
<b>鄰苯二甲酸酯 Phthalates</b>		
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) Bis(2-ethyl(hexyl)) phthalate (DEHP) CAS#:117-81-7	N.D.	50mg/kg
鄰苯二甲酸二正丁酯(DBP) Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50mg/kg
鄰苯二甲酸丁基苄酯(BBP) Benzylbutyl phthalate (BBP) CAS#:85-68-7	N.D.	50mg/kg

測試樣品/部位描述 無色透明液體

Tested Sample/Part Description Colorless transparent liquid

# 檢測報告 Test Report

報告編號 RHS05G018767001E  
Report No. RHS05G018767001E

第 6 頁 共 10 頁  
Page 6 of 10

注釋： 對於檢測鉛，鎘，汞之樣品已完全溶解。  
-N.D. = 未檢出 (小於方法檢測限).  
-mg/kg=ppm=百萬分之幾.

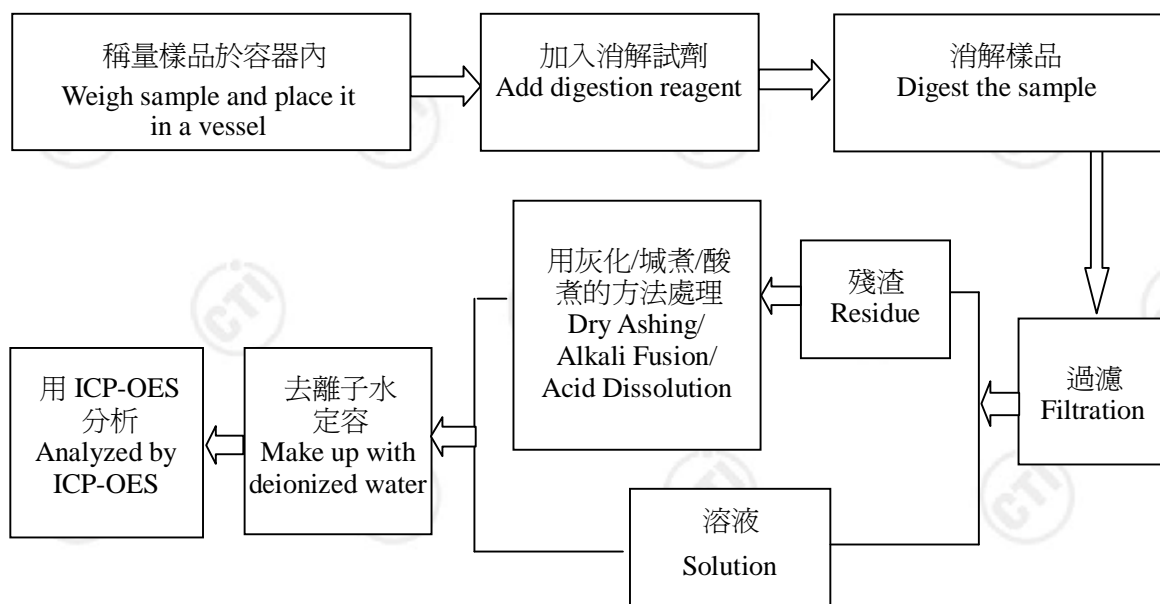
Note : The sample had been dissolved totally tested for Lead, Cadmium, Mercury.  
-MDL = Method Detection Limit  
-N.D. = Not Detected (<MDL)  
-mg/kg= ppm =parts per million.

備註： 報告編號中“E”表示此報告為中英文對照版本。

Remark: The end sign of report number E represents the bilingual version.

## 檢測流程 Test Process

### 1. 鉛(Pb) · 鎘(Cd) Lead(Pb), Cadmium(Cd)



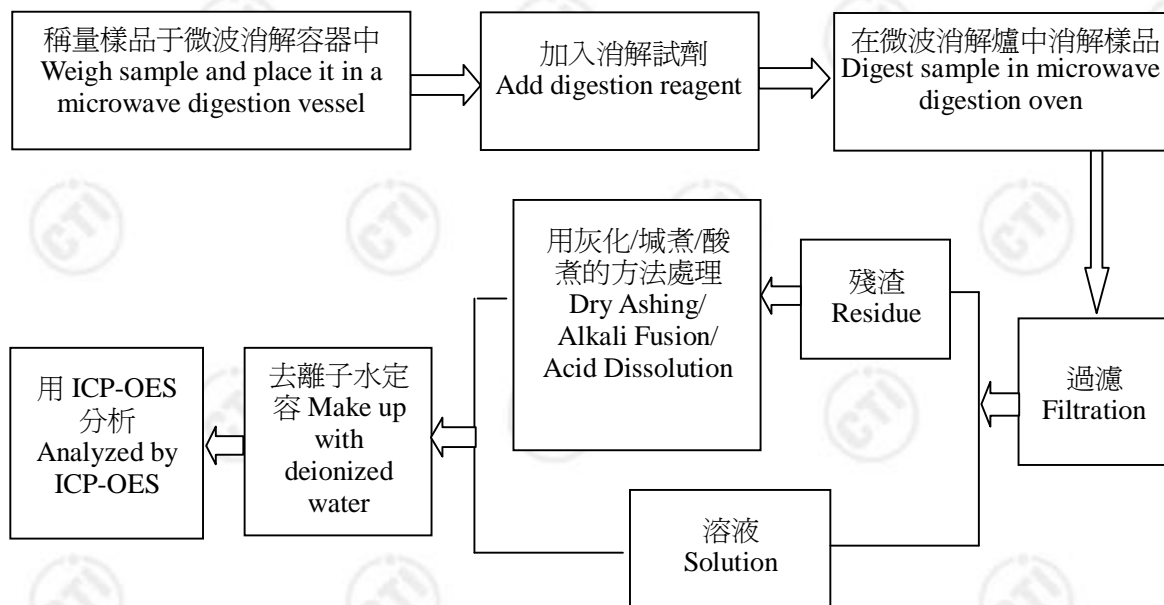
# 檢測報告

## Test Report

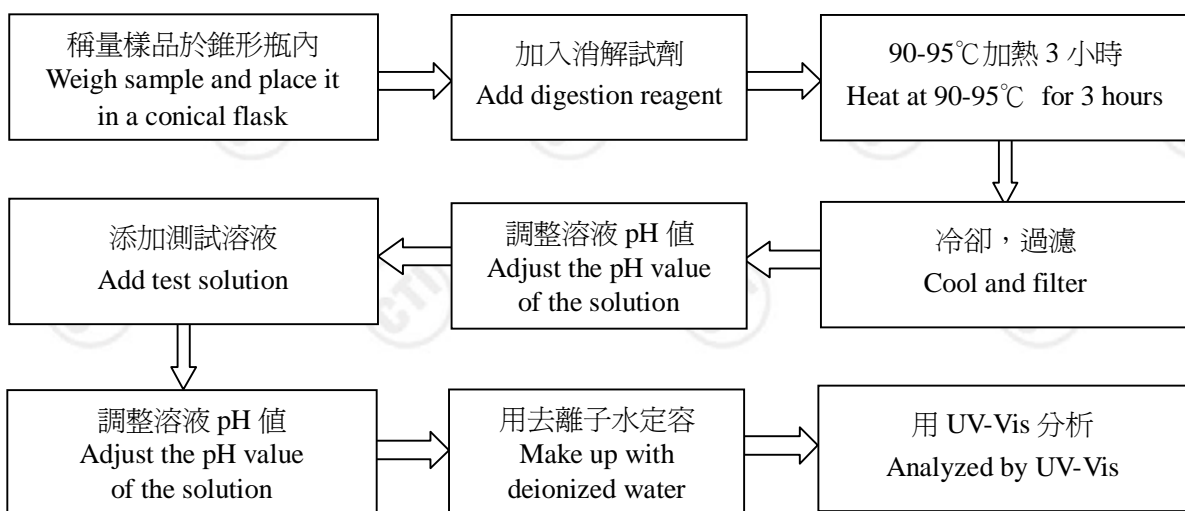
報告編號 RHS05G018767001E  
Report No. RHS05G018767001E

第 7 頁 共 10 頁  
Page 7 of 10

### 2. 汞(Hg) Mercury(Hg)



### 3. 六價鉻(Cr(VI)) Hexavalent Chromium (Cr(VI))



# 檢測報告

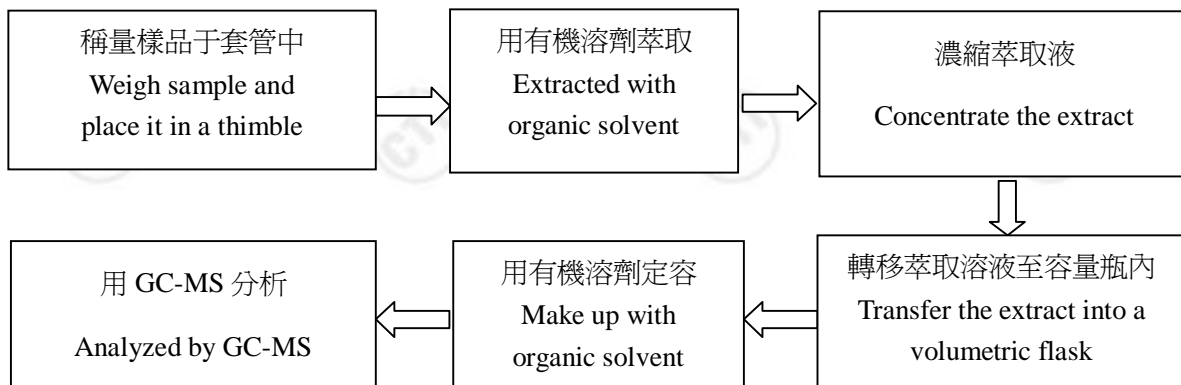
## Test Report

報告編號 RHS05G018767001E  
Report No. RHS05G018767001E

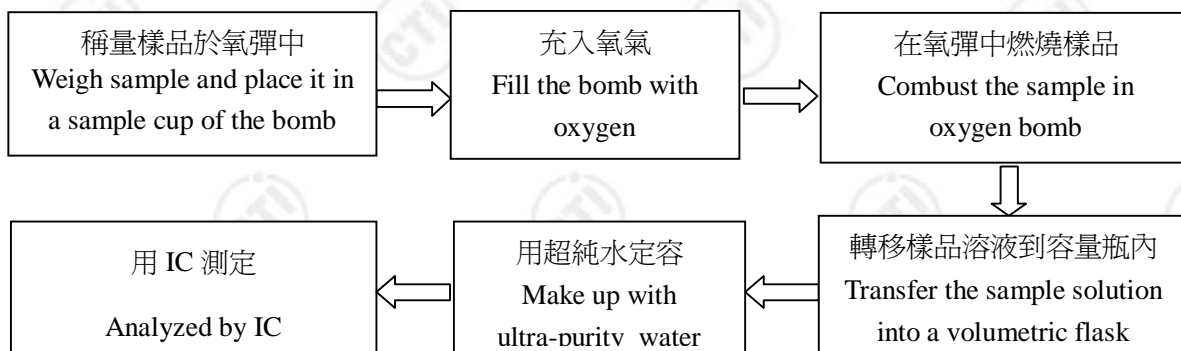
第 8 頁 共 10 頁  
Page 8 of 10

### 4. 多溴聯苯(PBBs), 多溴二苯醚(PBDEs)

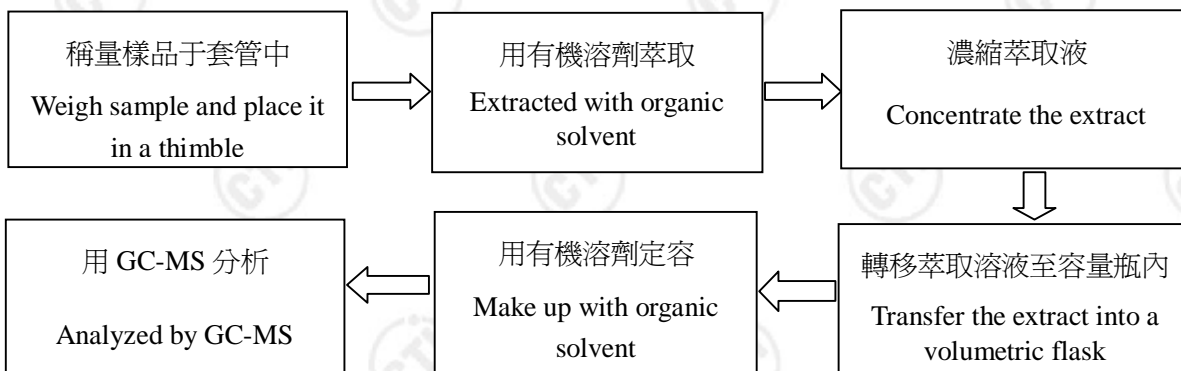
#### Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)



### 5. 氟(F), 氯(Cl), 溴(Br), 碘(I) Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I)



### 6. 六溴環十二烷(HBCDD) Hexabromocyclododecane (HBCDD)





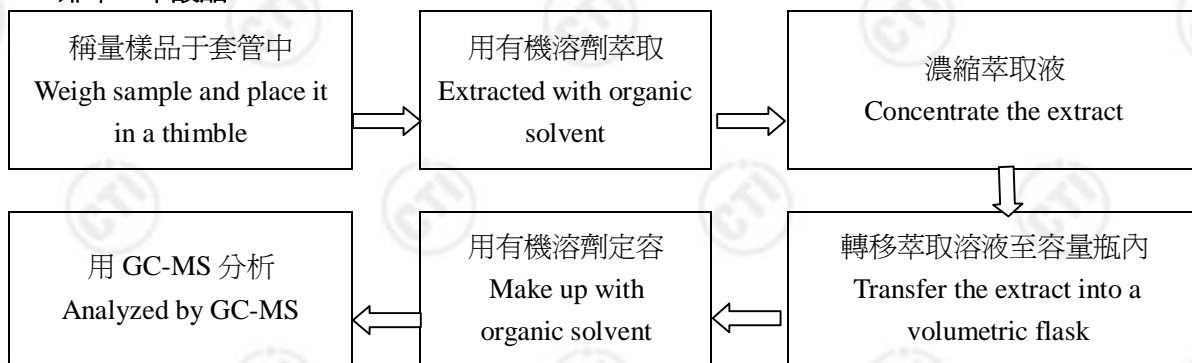
# 檢測報告

## Test Report

報告編號 RHS05G018767001E  
Report No. RHS05G018767001E

第 9 頁 共 10 頁  
Page 9 of 10

### 7. 鄰苯二甲酸酯 Phthalates

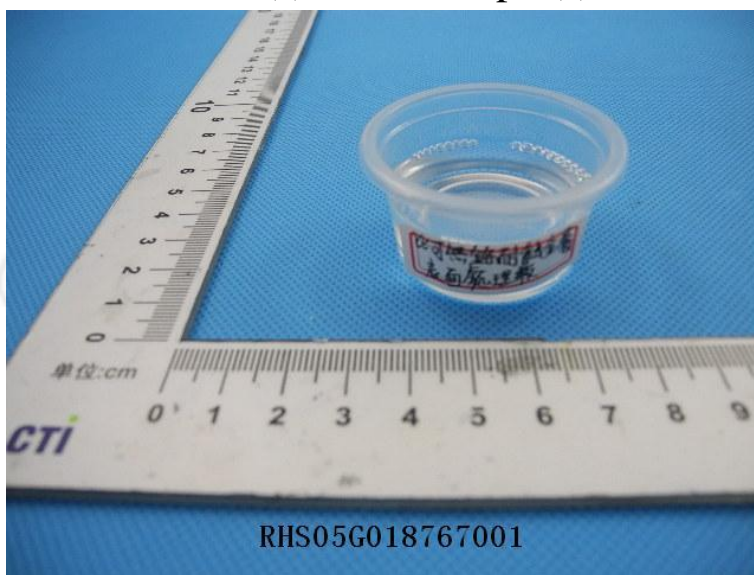


# 檢測報告 Test Report

報告編號 RHS05G018767001E  
Report No. RHS05G018767001E

第 10 頁 共 10 頁  
Page 10 of 10

## 樣品圖片 Photo(s) of the sample(s)



\*\*\* 報告結束 \*\*\*

\*\*\*End of report \*\*\*

檢測報告無批准人簽字及“報告專用章”無效，本報告檢測結果僅對受測樣品負責。未經 CTI 書面同意，不得部分複製本報告。

The test report is effective only with both signature and specialized stamp. The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.