

THE EARTH  
IS CRYING FOR  
**HELP!**



# *How much do we rely on plastic straw?*

Yearly plastic straws consumption exceeds more than you could imagine in every country around the world

- **3 billions** consumption in Taiwan, encircled **14** laps around the earth
- **46 billions** consumption in China, encircled **215** laps around earth
- **182.5 billions** consumption in US & Canada , encircled **853** laps around earth
- **671.3 billions** consumption all over the world, encircled **3133** laps around the earth

## *Do you know where does the biodegradable straws end up with ?*

- Biodegradation highly dependent on **heat, humidity and microorganism** and more than 180 days to dissolve
  - PLA is not yet in plastic recycling system worldwide
    - PLA can not be reprocessed with PP, PVC, PET plastics into recycling materials
      - Burning PLA produces **CO<sub>2</sub>** and **air pollution**
        - Using biodegradable plastic does not help in minimizing plastic consumption if to throw in room temperature or burning

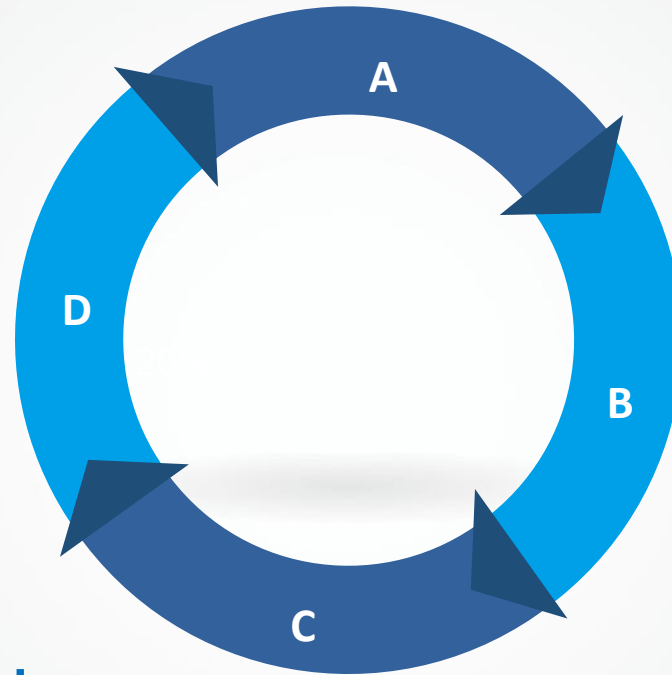
***Our concern :***

***5P damages to our environment, 2P(PBS/PLA) in ordinary room-conditions, PLA will endure for hundreds of years.***



# OCEAN POLLUTION

- The amount of **plastic waste will be greater than the total weight of global fish in 2050 by UN report**
- PLA enters the ocean and becomes plastic particles and **returns to the food chain again**



- Small size, diverse materials  
Difficult to distinguish from plastic. **Cannot be recycled**
- Sent to the incinerator for combustion  
**Toxic exhaustion**



# Natural Fibre Eco Straw



**Agriculture  
Waste  
Recycling**  
Steralized raw  
material

**PLA Free**  
CO2 Free

**Eco-friendly**  
Biodegradable

**Poisonless**  
Plastic free

**Durable in  
texture**  
Not easy to  
embrittlement



# Natural Fibre Eco Straw



## **Say NO to Plastic**

 **Pure Nature Fiber Straw**

Composition : Nature fiber, Tapioca powder

Spec : 6mm, 8mm, 12mm

Temperature Tolerance : -20~60°C

Shelf Life : 24 months store in cool and dry place



# Natural Fibre Eco Straw



	6mm	8mm	12mm
Outer Diameter	D 6mm x L 210mm	D 6mm x L 210mm	D 6mm x L 210mm
Material	Natural sugarcane fibre	Natural sugarcane fibre	Natural sugarcane fibre
Type	Straight Flat/Sharp end	Straight Flat/Sharp end	Straight Flat/Sharp end
Wrapping	Nude/no wrapping Paper wrapping	Nude/no wrapping Paper wrapping	Nude/no wrapping Paper wrapping

**Natural Fibre Eco Cutleries are available now**



# • Composition Comparison

	<b>SFY Bagasse Straw</b>	<b>PLA Bagasse Straw</b>	<b>Paper Straw</b>	<b>Corn Straw</b>	<b>Bamboo Straw</b>
<b>Composition</b>	Nature fibre Starch	Bagasse PLA	Paper Glue	Corn Starch PLA	Bamboo fiber PLA
<b>Decomposability</b>	Decomposes naturally Combustible	70°C ↑ heat、 microorganism、 humidity decompsable after 180 days	Indecomposable	70°C ↑ heat、 microorganism、 humidity decompsable after 180 days	Indecomposable
<b>Stocking condition/Validity</b>	Store in dry and cool condition/ 24 months	Store in 40°C below and dry condition/1 year	Store in dry and cool condition	Store in dry and cool condition	Store in dry and cool condition
<b>Durability</b>	-20~60°C Durable in acid, alcohol, and oil	-20~50°C Indurable to acid and alkaline	Indurable to acid and alkaline and heat	-20~120°C Indurable to acid and alkaline	-20~50°C Indurable to acid and alkaline Easy to mold
<b>Recyclability</b>	Recyclable	Not Recyclable	Recyclable	Not Recyclable	Not Recyclable



# PLA Straws Hurts the Ocean Lifes



Video Link : <https://www.youtube.com/watch?v=4wH878t78bw>



# Does Biodegradable Plastic Truly Environmental Friendly?

## NO Plastic? How about biodegradable plastic?

The biggest misunderstanding caused by biodegradable plastics is that users mistakenly believe that products can be decomposed in the natural environment. In fact, most of the "biodegradable plastics" on the market are "compostable decomposable plastics." They need to be decomposed in a composting environment with a high temperature of **70°C** and **high humidity and microorganism**, plus **more than 180 days**. Once it enters the general garbage disposal and recycling system and flows into the environment, the harm caused by traditional plastic is the same

-Reported by Green Peace 2019.11.28.

## PLA = Biodegradable and Compostable plastic?

In terms of ingredients, the purpose of food waste composting is to turn the food waste into nutrients such as nitrogen, phosphorus, potassium and other nutrients needed by plants, but after PLA is decomposed, **carbon dioxide** and **water** are added. There are **no nutrients** at all and it is dispensable for plants.

More importantly, the public must not think that it is bagasse + decomposable plastic and just throw it away and let it decompose by itself in the wild. **PLA requires a special environment** and **cannot be decomposed in a short period of time naturally**. It will still become garbage like plastic, and it will also be eaten by sea birds and turtles.

-Reported by The Commonwealth Magazine, 2018.9.18



# Plastic Ban Policy Worldwide

## Plastic Straw banned policy in countries below before 2020

China(46 billion)、 Canada(36.5 billion)、 15 States in USA (146 billion)  
UK(8.5 billion)、 EU(23 billion)  
Ireland、 France、 Republic of Vanuatu、 Jamaica、  
S. Korea(1 billion)、 Japan(4.1 billion)、 Indonesia(34 billion)  
Malaysia(11 billion)、 India(36 billion)、 Sri Lanka

\*Numerbs as yearly consumption

## Corporations plan to phase out plastic stras by 2020

McDonald、 Disney、 Starbucks、 Nando's, Coffee Chains, Marriot International,  
London City Airport, Marks & Spencers, Alaska Airlines

## UN resolution pledges to plastic reduction by 2030:

“We will address the damage to our ecosystems caused by the unsustainable use and disposal of plastic products, including by significantly reducing single-use plastic products by 2030, and we will work with the private sector to find affordable and environmentally friendly products,”

# Greenhouse Effect: Causing Global Warming



## 【Global warming, Glacier disappeared, Forest fire, Flood counterattack】

According to the research of “Reviews of Geophysics”, at the dawn of the industrial revolution, the Earth’s atmosphere contained 278 parts of CO<sub>2</sub> per million. Today, after more than two and a half centuries of fossil fuel use, that figure is around 414 parts per million (ppm). If the build-up of CO<sub>2</sub> continues at current rates, by 2060 it will have passed 560 ppm – more than double the level of pre-industrial times. better environment for the next generation.

By reducing plastic usage can help in reduce in CO<sub>2</sub> emissions.





Passed FDA 、 EU 、 SGS Testing Report

# Sanitation Standard for Food Utensils, Containers and Packages



## 測試報告

### Test Report

報告編號(No.): CT/2020/91676 報告日期(Date): 2020/10/12 頁數(Page): 1 of 4

順豐曜國際臺灣有限公司

SHUNFENGYAINTERNATIONAL CO., LTD.

新北市板橋區重慶路139巷16號1樓

1F, NO.16, LN. 139, CHENQUINGRD., BANQIAODIST., NEWTAIPEI CITY 220, TAIWAN(R.O.C.)

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as):

樣品名稱(Sample Description) : SUGARCANESIPAW(甘蔗渣吸管)  
 樣品包裝/數量(Sample Package/Quantity) : 散裝/單支 (BULK PACKAGING/單支)  
 樣品保存方式(Sample Packaging) : 室溫 (ROOMTEMPERATURE)  
 樣品型號(Style/Item No.) : 00100000060, 00100000061, 00100000080, 00100000081, 00100000121  
 樣品批號(Lot No.) : -  
 樣品材質(Sample Material) : 甘蔗渣+樹薯粉 (SUGARCANE+TAPICCA POWDER)  
 送樣廠商 (Sample Submitted By) : 順豐曜國際臺灣有限公司 (SHUNFENGYAINTERNATIONAL CO., LTD.)  
 送樣廠商地址/電話/聯絡人 (Company Address/Tel/Contact Person) : 新北市板橋區重慶路139巷16號1樓02-7746-3877/楊宗明 (1F, NO.16, LN. 139, CHENQUINGRD., BANQIAODIST., NEWTAIPEI CITY 220, TAIWAN(R.O.C.)/02-7746-3877/Tender Yang)  
 製造日期(Manufacturing Date) 有 : 2020.9.1  
 效日期(Expiry Date) : 2021.9.1  
 原產國(Country of Origin) : 台灣 (TAIWAN)  
 收件日期(Sample Receiving Date) : 2020/09/28  
 測試期間(Testing Period) : 2020/09/28 TO2020/10/12

#### 測試需求(Test Requested) :

依據客戶指定,參考中華民國食品器具容器包裝衛生標準 (102.08.20部授食字第1021350146號令修正) 進行測試。測試項目請參閱測試結果表格。/ As specified by client, with reference to Sanitation Standard for Food Utensils, Containers and Packages (MCHWFood No. 1021350146 amended on 2013/08/20) to conduct test. Please refer to the result table for testing item(s).

測試結果(Test Results) : 請參閱下一頁 (Please refer to following pages).

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蕭志祥 / 副理  
化學實驗室-台北  
台灣檢驗科技股份有限公司  
報告簽署人



## 測試報告

### Test Report

報告編號(No.): CT/2020/91676 報告日期(Date): 2020/10/12 頁數(Page): 2 of 4

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#### 測試結果(Test Results)

測試部位(PART NAME)No1: 吸管 (STRAW) (00100000121)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	LOQ/LCD	結果 (Result)	限值 (Limit)
			No.1	No.1	(Limit)
★螢光增白劑 / Fluorescent Brightening Agents	**	食品器具、容器、包裝檢驗方法-植物纖維紙類製品之檢驗(102年9月6日部授食字第1021950329號公告)。/ According to Methods of Test for Food Utensils, Containers and Packages - Test of Plant Fiber Paper Products (MCHWFood No. 1021950329 announced, September 6, 2013).	-	未檢出 / Not detected	不得檢出 / Negative

#### 備註(Notes):

- 檢驗報告僅就委託者之委託事項提供檢驗結果,不對產品合法性做判斷。(The test report merely reflects the test results of the consigned matters of the client and is not a certification of the legitimacy of the related products.)
- 本報告不得分離或掛錄使用。/ The report is invalid if it is partly reproduced or used.
- LOQ=Limit of Quantification (定量極限); LCD=Limit of Detection (偵測極限)
- "-" = Not Regulated (無規格值)
- \*\* = Qualitative analysis (No Unit) 定性分析(無單位)
- 測試項目名稱旁有★者,為本實驗室通過衛生福利部食品藥物管理署認證項目。(The test method marked with ★ is accredited by MCHW)
- 測試項目名稱旁有●者,為本實驗室擴充原方法適用基質,非屬食藥署該項認證範圍。(When there is a ● next to the test item, the test method was applied to the material out of the scope from MCHW accreditation.)
- 此用途為自主品管報告。(This testing report is subject to independent quality control.)

# Sanitation Standard for Food Utensils, Containers and Packages

**SGS**

## 測試報告

### Test Report

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\* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。  
(The tested sample / part is marked by an arrow if it's shown on the photo.)

**CT/2020/91676**



\*\* 報告結尾 (End of Report) \*\*

**SGS**

## 測試報告

### Test Report

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以下為申請廠商委託測試項目、測試方法、定量/偵測極限：  
( The information requested from client is shown as below : )

CT/2020/91676

測試項目 (Test Items)	測試方法 (Method)	LOQ LOD
★螢光增白劑 / Fluorescent Brightening Agents	食品器具、容器、包裝檢驗方法-植物纖維紙類製品之檢驗 (102年9月6日部授食字第1021950329號公告) / According to Methods of Test for Food Utensils, Containers and Packages - Test of Plant Fiber Paper Products (MCHW Food No. 1021950329 announced, September 6, 2013).	詳見測試結果之定量/偵測極限 (Please refer to the result table above.)

測試項目名稱旁有★者，為本實驗室通過衛生福利部食品藥物管理署認證項目。(The test method marked with ★ is accredited by MCHW.)

測試項目名稱旁有●者，為本實驗室擴充原方法適用基質，非屬食藥署該項認證範圍。(When there is a ● next to the test item, the test method was applied to the material out of the scope from MCHW accreditation. )

# Heat Tolerance of Plastic Food Utensils, Containers and Packages

SGS

## 測試報告 Test Report

報告編號(No.): CT/2020/91677 報告日期(Date): 2020/10/12 頁數(Page): 1 of 4

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以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as):

樣品名稱(Sample Description) : SUGARCANESIRAW(甘蔗渣吸管)  
樣品包裝/數量(Sample Package/Quantity) : 散裝/單支 (BULK PACKAGING/單支)  
樣品保存方式(Sample Packaging) : 室溫 (ROOMTEMPERATURE)  
樣品型號(Style/Item No.) : 00100000060, 00100000061, 00100000080, 00100000081, 00100000121  
樣品批號(Lot No.) : -  
樣品材質(Sample Material) : 甘蔗渣+樹薯粉 (SUGARCANE+ TAPIOCA POWDER)  
送樣廠商 (Sample Submitted By) : 順豐曜國際臺灣有限公司 (SHUN FENGYAOINTERNATIONAL CO., LTD.)  
送樣廠商地址/電話/聯絡人 (Company Address/Tel/Contact Person) : 新北市板橋區重慶路139巷16號1樓/02-7746-3877/楊宗明 (1F, NO.16, LN. 139, CHONGQINGRD., BANQIAODIST., NEWTAIPEI CITY 220, TAIWAN(R.O.C.)/02-7746-3877/Tender Yang)  
製造日期(Manufacturing Date) 有 : 2020.9.1  
效日期(Expiry Date) : 2021.9.1  
原產國(Country of Origin) : 台灣 (TAIWAN)  
收件日期(Sample Receiving Date) : 2020/09/28  
測試期間(Testing Period) : 2020/09/28 TO2020/10/12

測試需求(Test Requested) :

依據客戶要求進行測試, 測試項目請參閱測試結果表格。 / The test was specified by client, please refer to the result table for testing item(s).

測試結果(Test Results) : 請參閱下一頁 (Please refer to following pages).

蕭志祥  
蕭志祥 / 副理  
化學實驗室-台北  
台灣檢驗科技股份有限公司  
報告簽署人



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## 測試報告 Test Report

報告編號(No.): CT/2020/91677 報告日期(Date): 2020/10/12 頁數(Page): 2 of 4

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### 測試結果(Test Results)

測試部位(PART NAME)No.1 : 吸管 (STRAW) (001000000121)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	LOQ/LOD	結果 (Result)
★耐熱性試驗 / Heat Tolerance (60°C, 1 h)	-	塑膠類食品器具容器包裝之耐熱溫度標示符合性試驗方法(106年11月13日衛環食字第1061902219號公告) / According to Methods of Test for Labeling Conformance of Heat Tolerance of Plastic Food Utensils, Containers and Packages (MCHW Food No. 1061902219 announced, November 13, 2017).	-	No.1 功能性正常 / No appearance change

### 備註(Note) :

- 檢驗報告僅就委託者之委託事項提供檢驗結果, 不對產品合法性做判斷。(The test report merely reflects the test results of the consigned matters of the client and is not a certification of the legitimacy of the related products.)
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- LOQ=Limit of Quantification (定量極限) ; LOD=Limit of Detection (偵測極限)
- "-" = Not Regulated (無規格值)
- 測試項目名稱旁有★者, 為本實驗室通過衛生福利部食品藥物管理署認證項目。(The test method marked with ★ is accredited by MCHW)
- 測試項目名稱旁有●者, 為本實驗室擴充原方法適用基質, 非屬食藥署該項認證範圍。(When there is a ● next to the test item, the test method was applied to the material out of the scope from MCHW accreditation.)
- 此用途為自主品質報告。(This testing report is subject to independent quality control.)

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# Heat Tolerance of Plastic Food Utensils, Containers and Packages



## 測試報告 Test Report

報告編號(No.): CT/2020/91677 報告日期(Date): 2020/10/12 頁數(Page): 3 of 4

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\* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。  
(The tested sample / part is marked by an arrow if it's shown on the photo.)

CT/2020/91677



\*\* 報告結尾 (End of Report) \*\*



## 測試報告 Test Report

報告編號(No.): CT/2020/91677 報告日期(Date): 2020/10/12 頁數(Page): 4 of 4

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以下為申請廠商委託測試項目、測試方法、定量/偵測極限：  
( The information requested from client is shown as below :)

CT/2020/91677

測試項目 (Test Items)	測試方法 (Method)	LOQ/ LOD
★耐熱性試驗 / Heat Tolerance (60°C, 1h)	塑膠類食品器具容器包裝之耐熱溫度標示符合性試驗方法(106年11月13日衛授食字第1061902219號公告) / According to Methods of Test for Labeling Conformance of Heat Tolerance of Plastic Food Utensils, Containers and Packages MCHW/Food No. 1061902219 announced, November 13, 2017.	詳見測試結果之定量/偵測極限 (Please refer to the result table above.)

測試項目名稱旁有★者，為本實驗室通過衛生福利部食品藥物管理署認證項目。(The test method marked with ★ is accredited by MCHW)

測試項目名稱旁有●者，為本實驗室擴充原方法適用基準，非屬食藥署該項認證範圍。(When there is a ● next to the test item, the test method was applied to the material out of the scope from MCHW accreditation. )



# FDA 21 CFR 178.3000 for Pentachlorophenol



## 測試報告 Test Report

號碼(No.): CT/2020/91678 日期(Date): 2020/10/12 頁數(Page): 1 of 3

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新北市板橋區重慶路139巷16號1樓  
1F, NO.16, LN.139, CHONGQINGRD., BANQIAODIST., NEWTAIPEI CITY 220, TAIWAN(R.O.C.)

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as):

- 送樣廠商(Sample Submitted By) 樣: 順豐曜國際臺灣有限公司 (SHUN FENG YAINTERNATIONAL CO., LTD.)
- 品名稱(Sample Description) 樣品: SUGARCANE STRAW (甘蔗渣吸管)
- 型號(Style/Item No.): 00100000060, 00100000061, 00100000080, 00100000081, 00100000121
- 樣品材質(Sample Material): 甘蔗渣+樹薯粉 (SUGARCANE+ TAPIOCA POWDER)
- 生產或供應廠商(Manufacturer/Vendor): 順豐曜國際臺灣有限公司 (SHUN FENG YAINTERNATIONAL CO., LTD.)
- 原產國(Country of Origin): 台灣 (TAIWAN)
- 收件日期(Sample Receiving Date): 2020/09/28
- 測試日期(Testing Period): 2020/09/28 TO 2020/10/12

### 測試需求 (Test Requested) :

客戶指定依據美國聯邦法規之藥物暨食品管理 (FDA) 21 CFR 178.3800 之要求測試五氯酚。 / As specified by client, the sample(s) was/were tested according to U.S. Food and Drug Administration (FDA) 21 CFR 178.3800 for Pentachlorophenol.

測試結果 (Test Results) : 請參閱下一頁 (Please refer to following pages).

Singh Hsiao  
Singh Hsiao / Asst. Manager  
Signed for and behalf of  
SGS TAIWAN LTD.  
Chemical Laboratory - Taipei



## 測試報告 Test Report

號碼(No.): CT/2020/91678 日期(Date): 2020/10/12 頁數(Page): 2 of 3

順豐曜國際臺灣有限公司  
SHUNFENGYAINTERNATIONAL CO., LTD.  
新北市板橋區重慶路139巷16號1樓  
1F, NO.16, LN.139, CHONGQINGRD., BANQIAODIST., NEWTAIPEI CITY 220, TAIWAN(R.O.C.)

### 測試結果 (Test Results)

測試部位(PART NAME)No.1 : 吸管 (STRAW) (00100000121)

通過 (PASS)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	MDL	結果 (Result)	限值 (Limit)
				No.1	
五氯酚 / PCP (Pentachlorophenol) (CAS No.: 87-86-5)	mg/kg	依據美國FDA 21 CFR 178.3800 (2020) , 以氣相層析儀譜儀檢測。 / According to USFDA 21 CFR 178.3800 (2020). Analysis is performed by GCMS.	1	n.d.	50

### 備註 (Note) :

- 0.1 wt% □ = 1000ppm ; mg/kg = ppm
- MDL = Method Detection Limit (方法偵測極限值)
- n.d. = Not Detected = below MDL (未檢出 / 低於MDL)



## 測試報告 Test Report

號碼(No.): CT/2020/91678 日期(Date): 2020/10/12 頁數(Page): 3 of 3

順豐曜國際臺灣有限公司  
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\* 照片中如有箭頭標示, 則表示為實際檢測之樣品/部位。\*  
(The tested sample / part is marked by an arrow if it's shown on the photo.)

### CT/2020/91678



\*\* 報告結尾 (End of Report) \*\*



# Council of Europe Resolution AP 2002



## 測試報告 Test Report

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1F, NO.16, LN. 139, CHONGQINGRD., BANQIAODIST., NEWTAIPEI CITY 220, TAIWAN(R.O.C.)

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as):

送樣廠商(Sample Submitted By) 樣品名稱(Sample Description) 樣品型號(Style/Item No.) 樣品材質(Sample Material) 生產或供應廠商(Manufacturer/Vendor) 原產國(Country of Origin) 收件日期(Sample Receiving Date) 測試期間(Testing Period)

測試需求(Test Requested): 依據客戶指定，參考Council of Europe Resolution AP(2002) 1進行測試。測試項目請參閱測試結果表格。 / As specified by client, the sample(s) was/were tested with reference to Council of Europe Resolution AP(2002) 1. Please refer to the result table for testing item(s).

測試結果(Test Results) : 請參閱下一頁 (Please refer to following pages).

Singh Hsiao  
Singh Hsiao / Asst. Manager  
Signed for and behalf of  
SGS TAIWAN LTD.  
Chemical Laboratory - Taipei



## 測試報告 Test Report

號碼(No.): CT/2020/91679 日期(Date): 2020/10/12 頁數(Page): 2 of 3

順豐曜國際臺灣有限公司  
SHUNFENGYAINTERNATIONAL CO., LTD.  
新北市板橋區重慶路139巷16號1樓  
1F, NO.16, LN. 139, CHONGQINGRD., BANQIAODIST., NEWTAIPEI CITY 220, TAIWAN(R.O.C.)

### 測試結果(Test Results)

測試部位(PART NAME) No.1 : 吸管 (STRAW) (00100000121)

測試項目 (Test Item)	單位 (Unit)	測試方法 (Method)	ML	結果 (Result)	
				No.1	限值 (Limit)
可溶出重金屬-鉛 (水, 23°C, 24小時) / Extrable Heavy Metal-Lead (Pb) (水 / water, 23°C, 24 hrs)	mg/dm <sup>2</sup>		0.002	n.d.	0.003
可溶出重金屬-鎘 (水, 23°C, 24小時) / Extrable Heavy Metal-Cadmium (Cd) (水 / water, 23°C, 24 hrs)	mg/dm <sup>2</sup>	參考EN645 (1994), 以感應耦合電漿銜譜儀分析。 / With reference to EN645 (1994). Analysis was performed by ICP-MS.	0.001	n.d.	0.002
可溶出重金屬-汞 (水, 23°C, 24小時) / Extrable Heavy Metal-Mercury (Hg) (水 / water, 23°C, 24 hrs)	mg/dm <sup>2</sup>		0.001	n.d.	0.002
五氯酚 / Pentachlorophenol (PCP) (CAS No.: 87-86-5)	mg/kg	參考ISO 17070 (2006), 以氣相層析電子捕捉偵測器檢測。 / With reference to ISO 17070 (2006). Analysis was performed by GC-ECD.	0.05	n.d.	0.15

通過(PASS)

- 備註(Note):
1. mg/kg = ppm; 0.1wt% = 1000ppm
  2. mg/dm<sup>2</sup> = milligram per square decimeter / 毫克/每100平方公分
  3. ML = Method Detection Limit (方法偵測極限值)
  4. n.d. = Not Detected (未檢出) = 小於 (less than) ML
  5. °C = degree Celsius / 攝氏溫度
  6. 測試條件及模擬液是由客戶指定 (Test condition & simulant were specified by client).



## 測試報告 Test Report

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順豐曜國際臺灣有限公司  
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\* 照片中如有箭頭標示，則表示為留樣檢測之樣品/部位。 \*  
(The tested sample / part is marked by an arrow if it's shown on the photo.)

### CT/2020/91679



\*\* 報告結尾 (End of Report) \*\*





# FTIR determine not containing 5P & PLA



**Test Report** No. : CT/2020/91681 Date : 2020/10/21 Page : 1 of 8

SHUN FENG YAO INTERNATIONAL CO., LTD.  
1F, NO. 16, LN. 139, CHONGQING RD., BANQIAO DIST., NEW TAIPEI CITY 220, TAIWAN (R.O.C.)

The following samples was/were submitted and identified by/on behalf of the applicant as :

- Sample Submitted By : SHUN FENG YAO INTERNATIONAL CO., LTD.
- Sample Description : SUGARCANE STRAW
- Style/Item No. : 00100000060, 00100000061, 00100000080, 00100000081, 00100000121
- Sample Material : SUGARCANE + TAPIOCA POWDER
- Manufacturer/Vendor : SHUN FENG YAO INTERNATIONAL CO., LTD.
- Country of Origin : TAIWAN
- Sample Receiving Date : 2020/09/28
- Testing Period : 2020/09/28 TO 2020/10/21

=====

Test Result(s) : Please refer to following pages.

*Troy Chang*  
 Troy Chang / Manager - Tech  
 Signed for and behalf of  
 SGS TAIWAN LTD.  
 Chemical Laboratory - Taipei




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# FTIR determine not containing 5P & PLA

**FTIR**  
determinate  
sample is not  
containing  
**Polypropylene**  
**(PP)**



**Test Report** No. : CT/2020/91681 Date : 2020/10/21 Page : 2 of 8

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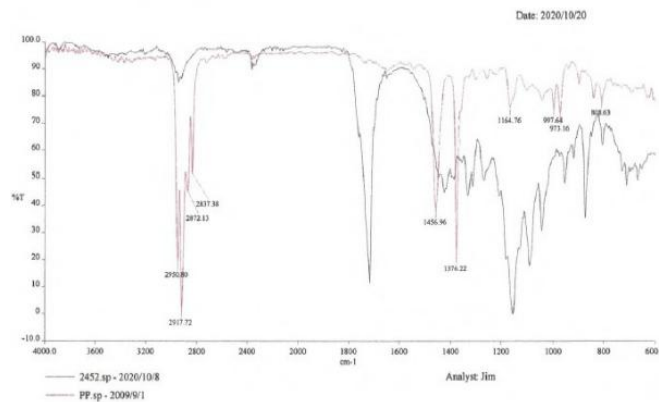
**Test Result(s)**

PART NAME No.1 : STRAW(00100000121)

Test Item(s)	Method	Result
		No.1
Material analysis	Analyse were performed by Fourier Transform Infrared Spectroscopy (FTIR).	The main material of the sample is determinate not containing Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Polyvinyl chloride (PVC), Polyethylene terephthalate (PET) and Polylactic acid (PLA).

**FTIR Spectrum :**

Infrared rays analysis (overlay of sample and PP)



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# FTIR determine not containing 5P & PLA

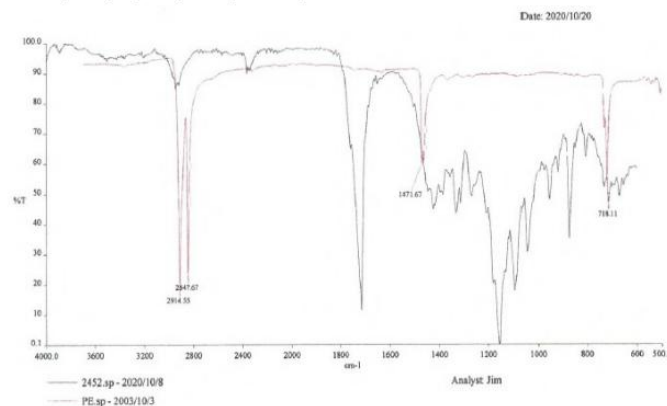
FTIR  
determinate  
sample is not  
containing  
Polyethylene(PE)



**Test Report** No. : CT/2020/91681 Date : 2020/10/21 Page : 3 of 8

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Infrared rays analysis (overlay of sample and PE)



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# FTIR determine not containing 5P & PLA

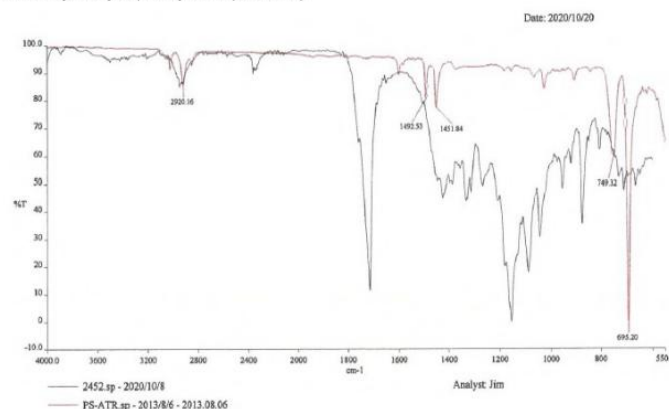
FTIR  
determinate  
sample is not  
containing  
Polystyrene(PS)



Test Report No. : CT/2020/91681 Date : 2020/10/21 Page : 4 of 8

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Infrared rays analysis (overlay of sample and PS)





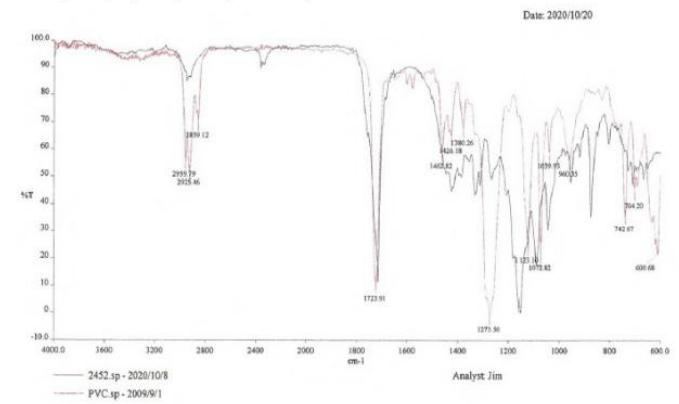
# FTIR determine not containing 5P & PLA

## FTIR determinate sample is not containing Polyvinyl chloride(PVC)



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Infrared rays analysis (overlay of sample and PVC)



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# FTIR determine not containing 5P & PLA

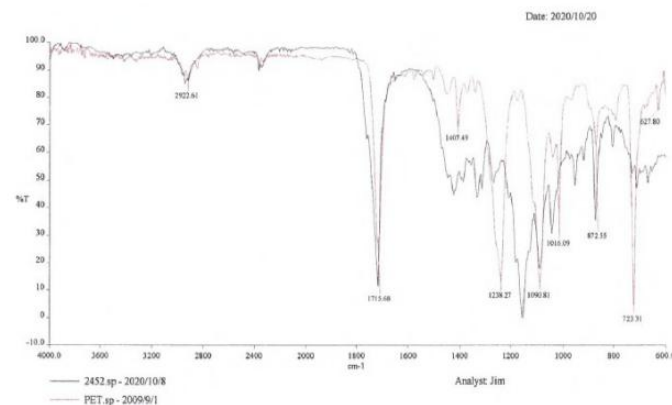
FTIR  
determinate  
sample is not  
containing  
Polyethylene  
Terephthalate(P  
ET)



Test Report No. : CT/2020/91681 Date : 2020/10/21 Page : 6 of 8

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Infrared rays analysis (overlay of sample and PET)



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# FTIR determine not containing 5P & PLA

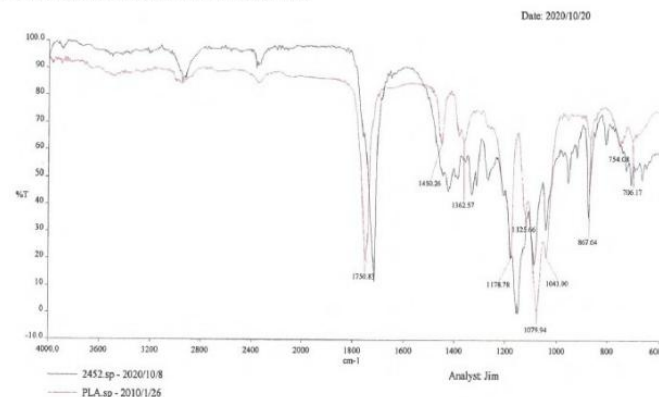
FTIR  
determinate  
sample is not  
containing  
Polylactic Acid  
(PLA)



**Test Report** No. : CT/2020/91681 Date : 2020/10/21 Page : 7 of 8

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Infrared rays analysis (overlay of sample and PLA)



**Note :**

1. The testing item was subcontracted to Plastics Industry Development Center.

# FTIR determine not containing 5P & PLA

**SGS**

## Test Report

No. : CT/2020/91681

Date : 2020/10/21

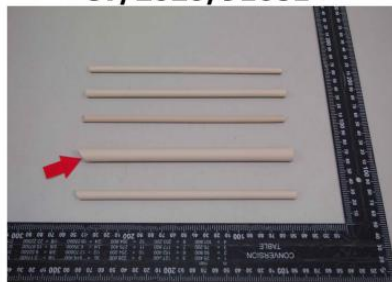
Page : 8 of 8

SHUN FENG YAO INTERNATIONAL CO., LTD.

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\* The tested sample / part is marked by an arrow if it's shown on the photo. \*

**CT/2020/91681**



\*\* End of Report \*\*



順豐曜國際

SFY International Co., Ltd

---

**SFY INTERNATIONAL CO., LTD**

Marketing & Sales Assistant Manager

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**THANKS**  
**FOR WATCHING**