

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 ?

- Biodegration 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 CO2 and air polution
 - Using biodegradable plastic does not help in minimizing plastic consumption if to throw in room termperature or buning

Our concern: 5P damages to our environment, 2P(PBS/PLA) in ordinary roomconditions, 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 CO2 Free

Eco-friendly Biodegradable

able

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	Natural sugarcane	Natural sugarcane
	fibre	fibre	fibre
Туре	Straight	Straight	Straight
	Flat/Sharp end	Flat/Sharp end	Flat/Sharp end
Wrapping	Nude/no wrapping	Nude/no wrapping	Nude/no wrapping
	Paper wrapping	Paper wrapping	Paper wrapping

Natural Fibre Eco Cutleries are available now



Composition Comparison

	SFY Bagasse Straw	PLA Bagasse Straw	Paper Straw	Corn Straw	Bamboo Straw
Composition	Nature fibre Starch	Bagasse PLA	Paper Glue	Corn Starch PLA	Bamboo fiber PLA
Decomposability	Decomposes naturally Combustible	70°C ↑ heat、 microorganism、 humidity decompsable after 180 days	Indecomposable	70℃ ↑ heat、 microorganism、 humidity decompsable after 180 days	Indecomposable
Stocking condition/Validity	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
Durability	-20∼60℃ Durable in acid, alcohol, and oil	-20∼50℃ Indurable to acid and alkaline	Indurable to acid and alkaline and heat	-20∼120℃ Indurable to acid and alkaline	-20∼50℃ Indurable to acid and alkaline Easy to mold
Recyclability	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 unsustainabe 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 researcch of "Reviews of Geophysics", at the dawn of the industrial revolution, the Earth's atmosphere contained 278 parts of CO_2 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_2 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 CO2 emissions.





Passed FDA 、 EU 、 SGS Testing Report



Sanitation Standard for Food Utensils, Containers and Packages



測試報告

測試需求(Test Requested)

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

result table for testing item(s).

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

順豐曜國際臺灣有限公司

SHUNFENGYAOINTERNATIONAL CO., LTD. 新北市板橋區重慶路139巷16號1樓

1F, NO.16, LN. 139, CHONGONGRD., BANQAODIST., NEWTAIPEI CITY 220, TAWAN(R.O.C.)

测试结果(Test Results) : 請參閱下一頁 (Please refer to following pages).

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):		
様品名稱(Sample Description)		SUCARCANESTRAW(甘蔗渣吸管)
様品包裝/數量(Sample Package/	:	散裝/單支 (BULK PACKAGENG) 4 (BULK PACKAGENG)
Quantity)		
樣品保存方式(Sample Packaging)	:	室温 (ROOM TEMPERATURE)
樣品型號(Style/Item No.)	:	00100000060, 00100000061, 00100000080, 00100000081, 00100000121
樣品批號(Lot No.)	:	Sense and a sense of the sense
樣品材質(Sample Material)		甘蔗渣+樹薯粉 (SUGARCANE+ TAPICCA FOWDER)
送 樣 廠 商 (Sample Submitted By)	:	順豐曜國際臺灣有限公司 (SHUN FENG YAON TERNATIONAL CO., LTD.)
送樣廠商地址/電話/聯絡人(Company	:	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,
Address/Tel/Contact Person)		CHONGONGRD., BANQIAODIST., NEWTAIPEICTY 220, TAWAN(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)	0	台灣 (TAIWAN)
收件日期(Sample Receiving Date)	:	2020/09/28
測試期間(Testing Period)	:	2020/09/28 TD2020/10/12

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

目請參聞測試結果表格. / Asspecified 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

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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)	LOQLOD	结果 (Result) No.1	限值 (Limit)
螢光增白劑 / Fluorescent Brightening gents	**	食品器具、容器、包装植驗方法.植物纖維 紙類製品之始驗(102年9月6日部度食字第 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(Note):

- 1. 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.)
- 2. 本報告不得分離或擷錄使用。/ The report is invalid if it is partly reproduced or used.
- 3 LOQ=Limit of Quantification (定量極限); LOD=Limit of Detection(偵測極限)
- 4. "-" = Not Regulated (無規格值)
- 5. ** =Qualitative analysis (No Unit) 定性分析(無單位)
- 6. 測試項目名稱旁有★者,為本審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)
- 7. 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 MDHW accreditation.)
- 8. 此用途為自主品管報告。(This testing report is subject to independent quality control.)

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Sanitation Standard for Food Utensils, Containers and Packages



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* 照片中如有箭頭標示,則表示為寧際检測之様品/部位. *

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



** 報告結尾 (End of Report) **



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以下為申請廠商委託測試項目、測試方法、定重/ 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)	roð, rod
★童光増白剣 / Fluorescent Brightening Agents	食品器具、容器、包装檢驗方法,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).	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 MIHW)

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

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Heat Tolerance of Plastic Food Utensils, Containers and Packages



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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) : SUGARCANESTRAW(甘蔗渣吸管) 樣品包裝/數量(Sample Package/ : 散裝/單支 (BULK PACKAGING/單支) Quantity) 樣品保存方式(Sample Packaging) : 室溫(ROOMTEMPERATURE) 樣品型號(Style/Item No.) : 0010000060, 0010000061, 0010000080, 0010000081, 00100000121 樣品批號(Lot No.) 1 -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 FENG YAOINTERNATIONAL CO., LTD.) 送樣廠商地址/電話/聯絡人(Company : 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, Address/Tel/Contact Person) CHONGQINGRD., BANQIAODIST., NEWTAIPEI CITY 220, TAWAN(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).







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測試報告

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MWWWWWWWAFF9764259 SHLNFFNGYAONTERNATIONAL CO., LTD. 新北市板橋區重整路139巻16数1樓 1F, NO.16, LN. 139, CHENSQNGRD., BANQAODIST., NEWTAIPEI CITY 220, TAWAN(R.O.C.)

測試結果(Test Results)

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

测試項目(Test Items)	單位 (Unit)	測試方法 (Method)	LOQLOD	結果 (Result) No.1
★耐熱性試驗 / Heat Tolerance (60℃, 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日衛援食字第1061902219號公告), / According to Methods of Test for Labeling Conformance of Heat Tolerance of Plastic Food Utensils, Containers and Packages MCHWFood No. 1061902219 announced, November 13, 2017).		功能性正常 ,無變褪色 / No appearance change

備註(Note):

- 1. 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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- 3 LOQ=Limit of Quantification (定量極限); LOD=Limit of Detection(偵測極限)
- 4. "-" =Not Regulated (無規格值)
- 測試項目名稱旁有★者,為本審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)
- 6. 測試項目名稱旁有●者,為本審驗室擴充原方法適用基碼,非屬食藥署該項認證範密。(When there is a next to the test item, the test method was applied to the material out of the scope from NDHW accreditation.)
- 7. 此用途為自主品管報告。(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

報告編號(No.): CT/2020/91677 報告日期(Date): 2020/10/12 百數(Page): 3 of 4 Test Report

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> * 照片中如有箭頭標示,則表示為窗際检測之様品/部位. * (The tested sample / part is marked by an arrow if it's shown on the photo.)



** 報告結尾 (End of Report) **



測試報告

和告編號(No.): CT/2020/91677 報告日期(Date): 2020/10/12 百數 (Page): 4 of 4

順豐曜國際臺灣有限公司

Marken and Marken An

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)	ιαγ ιαρ
★耐熱性試驗 / Heat Tolerance (60℃, 1 h)	塑膠類食品器具容器包裝之耐熱温度標示符合性試驗方法(106 年11月13日衛授食字第1061902219裝公告). / According to Methods of Test for Labeling Conformance of Heat Tolerance of Plastic Food Utensils, Containers and Packages NCHWFood 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.)

測試項目名稱勞有★者,為本審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)

测试項目名稱旁有●者,為本審驗室擴充原方法適用基碼,非圖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 MDHW accreditation.)

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FDA 21 CFR 178.3000 for Pentachlorophenol



測試報告

Test Report

測試需求(Test Requested)

Pentachlorophenol.

測試結果(Test Results)

號碼(No.): CT/2020/91678 日期(Date): 2020/10/12

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以下測試樣晶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 YAOINTERNATIONAL CO., LTD.)
品名稱(Sample Description) 樣品	:	SUGARCANESIRAW(甘蔗渣吸管)
型號(Style/Item No.)	:	00100000060, 00100000061, 00100000080, 00100000081, 00100000121
樣品材質(Sample Material)	0	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 HENG YAOINTERNATIONAL CO., LTD.)
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

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, / Asspecified by client,

the sample(s) was/were tested according to U.S. Food and Drug Administration (FDA) 21 CFR178.3800 for

: 請參閱下一頁 (Please refer to following pages).

SGS

測試報告

頁數(Page): 1 of 3

號碼(No.): CT/2020/91678 Test Report

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順豐曜國際臺灣有限公司

SHUNHENGYAOINTERNATIONAL CO., LTD. 新北市板格區重度路139巷16號1樓 1F, NO.16, LN.139, CHONEDINGRD., BANDAODIST., NEWTAIPEICITY220, TAIWAN(R.O.C.)

測試結果(Test Results)

備註(Note):

1.0.1 w * = 1000ppm; mg/kg = ppm

2 ML=Method Detection Limit (方法偵測極限值)

3. n.d. = Not Detected = below MDL(未檢出/低於MDL)

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

					通過(PA
測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	MCL	結果 (Result) No.1	限值 (Limit)
五氯酚/ PCP(Pentachlorophenol) (CAS No.: 87–86–5)	mg/kg	依據美國HDA21 CHR 178.3800 (2020), 以氣相層折縣譜儀檢測, / According to USHDA21 CHR 178.3800 (2020). Analysis was performed by GCMMS.	1	n.d.	50

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測試報告 號碼(No.): CT/2020/91678 日期(Date): 2020/10/12 頁數(Page): 3 of 3 Test Report 聯份確認答意演有限公司

開墾開設が登済月内公司 SHUNFBNGYAONTENATIONAL CO., LTD. 新北市板橋區重換路139巻16数1後 1F, NO.16, LN.139, CHCNEDNGRD., BANDAODIST., NEWTAIPEICITY220, TAIWAN(R.O.C.)

> * 照片中如有箭頭標示・則表示為窗際
> 巻測之様品/
> 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) **





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Council of Europe Resolution AP 2002



測試報告

Test Report

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順豐曜國際臺灣有限公司 SHUNENGYAOINTERNATIONAL CO., LTD. 新北市板橋區重慶路139巷16號1樓 1F, NO.16, LN. 139, CHONOQINGRD., BANQIAODIST., NEWTAIPEI CTTY 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 HENG YAOINTERNATIONAL CO., LTD.)
品名稱(Sample Description) 樣品型	: SUGARCANESIRAW(甘蔗渣吸管)
號(Style/Item No.)	: 0010000060, 0010000061, 0010000080, 0010000081, 0010000012
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 HENG YAOINTERNATIONAL CO., LTD.)
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 TO 2020/10/12

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).



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測試結果(Test Results)

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

8. · · · · · · · · · · · · · · · · · · ·		59	3		画 @(FA%)
測試項目(Test Item)	單位 (Unit)	測試方法 (Method)	MDL	結果 (Result)	限值 (Limit)
				No.1	
可溶出重金屬- 鉛(水,23℃,24小時) / Extrable Heave Metal-Lead (Pb) (水 / water, 23℃, 24 hrs)	mg/dm²		0.002	n.d.	0.003
可溶出重金屬- 鎘(水,23℃,24小時) / Extrable Heave Metal-Cadmiurn(Cd) (水 / water, 23℃, 24 hrs)	mg/dm²	参考EN645 (1994), 以感應耦合電漿链 譜儀分析. / With reference to EN645 (1994). Analysis was performed by ICP- UC	0.001	n.d.	0.002
可溶出重金屬-汞 (水, 23℃, 24小時) / Extrable Heave Metal-Mercury (Hg) (水 / water, 23℃, 24 hrs)	mg/dm²	M.S.	0.001	n.d.	0.002
五氯酚 / Pentachlorophenol(PCP) (CAS No.: 87-86-5)	mg/kg	參考ISO 17070 (2006). , 以氣相層折電 子捕捉偵測器檢測. / With reference to ISO 17070 (2006). Analysis was performed by GCECD.	0.05	n.d.	0.15

備註(Note):

- 1. mg/kg =ppm; 0.1wt □ =1000ppm
- 2. mg/dm² = milligram per square decimeter / 臺克/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) MIL
- 5. ℃=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).





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* 照片中如有箭頭標示,則表示為審際检測之樣品/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) **





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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.	1	0010000060, 0010000061, 0010000080, 0010000081, 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.





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FTIR determinate sample is not containing Polypropylene (PP)



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Test Result(s)

PART NAME No.1 : STRAW(00100000121)

Test Item(s)	Method	Result
		No.1
Material analysis	Analyses were performed by Fourier Transform In frared 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).

Date : 2020/10/21

FTIR Spectrum :

Infrared rays analysis (overlay of sample and PP)



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FTIR determinate sample is not containing Polyethylene(PE)



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FTIR determinate sample is not containing Polystyrene(PS)



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FTIR determinate sample is not containing Polyvinyl chloride(PVC)







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



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FTIR determinate sample is not containing Polylactic Acid (PLA)



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 Test Report





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

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



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Marketing & Sales Assistant Manager Alyssa Lee



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