

## Test Report 測試報告

Applicant: Hos Win Enterprise Co., Ltd.  
申請廠商 禹昌企業股份有限公司  
No. 6-3, Dalun Rd.,  
Dacun Township, Changhua County 51544,  
Taiwan  
彰化縣大村鄉大崙路 6 之 3 號

Number : TWNC01391882  
報告號碼

Issue Date : Sep 05, 2025  
報告發行日期

### Sample Description 樣品敘述:

One (1) Group of Submitted Samples Said To Be:

壹(一)件所送檢樣品據指各為:

Name of Sample : PAPER FOOD CONTAINER  
樣品名稱 紙類食品容器  
Country of Origin : TAIWAN  
原產地 台灣  
Manufacturer : HOS WIN ENTERPRISE CO., LTD.  
製造廠商 禹昌企業股份有限公司  
Date Sample Received : Aug 29, 2025  
樣品收到日期  
Date Test Started : Aug 29, 2025  
開始測試日期

### Test Conducted 測試內容:

Tests were conducted by applicant's request, for details please refer to attached pages.  
依據客戶要求執行測試，結果請參考附頁。

Authorized By 審核者:

On behalf of Intertek Testing Services  
Taiwan Limited  
全國公證檢驗股份有限公司

Matt Wang 王政雄  
General Manager 總經理



Signed by 報告簽署人:

Thomas Chou

Thomas Chou 周世民  
Manager 經理



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Test Conducted 測試內容：

1. Analysis of Food Utensils, Containers and Packages - Paper (the direct contact surface material with food is plastics / Plastics was listed in Appendix Table 2 Requirements for plastics of Sanitation Standard for Food Utensils, Containers and Packages  
食品器具容器包裝檢測 - 紙類(與食品直接接觸面之部分為塑膠類者/塑膠材質列於食品器具容器包裝衛生標準附表二)

Method : Fluorescent brightening agent  
檢驗方法 螢光增白劑  
Sample was analyzed by UV Lamp.  
樣品以紫外燈進行測定。

Consumption of Potassium Permanganate  
高錳酸鉀消耗量  
Sample was migrated and migration solution was analyzed by titration.  
樣品經溶出後，溶出液以滴定法測定。

Heavy Metals (as Pb)  
重金屬(以 Pb 計)  
Sample was migrated and migration solution was analyzed by colorimetry.  
樣品經溶出後，溶出液以比色法測定。

Residues after Evaporation  
蒸發殘渣  
Sample was migrated and migration solution was weighted after evaporation.  
樣品經溶出後，溶出液蒸發後秤重測定。

Result :  
檢驗結果

Test Item 檢驗項目	Unit 單位	Limit of quantitation 定量極限	Result 檢出值	Limit <sup>#</sup> 限值
			White paper bowl with plastic film (see arrow) 白色紙碗含 淋膜 (見箭頭)	
<b>Material Test 材質試驗</b>				
Fluorescent brightening agent (Direct observation) 螢光增白劑(直接觀察法)	--	--	Not detected 未檢出	Not detected 不得檢出



Test Conducted 測試內容 :

Analysis of Food Utensils, Containers and Packages - Paper (the direct contact surface material with food is plastics / Plastics was listed in Appendix Table 2 Requirements for plastics of Sanitation Standard for Food Utensils, Containers and Packages (Cont'd)

食品器具容器包裝檢測 - 紙類(與食品直接接觸面之部分為塑膠類者/塑膠材質列於食品器具容器包裝衛生標準附表二) (續)

Result :  
檢驗結果

Test Item 檢驗項目	Unit 單位	Limit of quantitation 定量極限	Result 檢出值	Limit <sup>#</sup> 限值
			White paper bowl with plastic film (see arrow) 白色紙碗含 淋膜 (見箭頭)	
<b>Migration Test 溶出試驗</b>				
Consumption of Potassium Permanganate 高錳酸鉀消耗量 (Water, 95°C, 30 min) (水、95°C、30 分鐘)	ppm	0.2	1.6	10
Heavy Metals (as Pb) 重金屬(以 Pb 計) (4% Acetic Acid, 95°C, 30 min) (4% 醋酸、95°C、30 分鐘)	ppm	1	< 1	1
Residues after Evaporation (pH>5) 蒸發殘渣(pH>5) (Water, 95°C, 30 min) (水、95°C、30 分鐘)	ppm	1	5	30
Residues after Evaporation (pH≤5) 蒸發殘渣(pH≤5) (4% Acetic Acid, 95°C, 30 min) (4% 醋酸、95°C、30 分鐘)	ppm	1	6	30
Residues after Evaporation (Food Containing Surface Oils / Oils and Fatty Foods) 蒸發殘渣(含表面油脂/脂肪性食品) (n-Heptane, 25°C, 1 hour) (正庚烷、25°C、1小時)	ppm	1	4	30
Residues after Evaporation (Foods Containing Alcohol) 蒸發殘渣(含酒精成分食品) (20% Alcohol, 60°C, 30 min) (20%乙醇、60°C、30 分鐘)	ppm	1	8	30

<sup>#</sup> : As per applicant's provided requirement  
依據客戶要求



Test Conducted 測試內容：

2. Analysis of Food Utensils, Containers and Packages - Material Test and Migration Test  
食品器具容器包裝檢測 - 材質試驗及溶出試驗

Method : Lead (Pb) / Cadmium (Cd)  
檢驗方法 鉛含量 / 鎘含量  
Sample was digested by microwave and analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).  
樣品經微波消化後，以感應耦合電漿放射光譜儀(ICP-OES)測定。

Migration of Phthalates  
溶出塑化劑  
Sample was migrated and migration solution was analyzed by Gas Chromatography-Mass Spectrometer (GC-MS).  
樣品經溶出後，溶出液以氣相層析質譜儀(GC-MS)測定。

Phthalates  
材質塑化劑  
With reference to CNS 15138-1 (6/14/2012) - Method of test for determination of phthalates plasticizers in plastic products - Part 1: Gas chromatography/mass spectrometry.  
參考 CNS 15138-1 (101 年 6 月 14 日) - 塑膠製品中鄰苯二甲酸酯類塑化劑試驗法-第 1 部：氣相層析質譜法。

Result :  
檢驗結果

Test Item 檢驗項目	Unit 單位	Limit of quantitation 定量極限	Result 檢出值	Limit # 限值
<b>Material Test 材質試驗</b>				
Lead (Pb) 鉛含量	ppm	5	Not detected 未檢出	100
Cadmium (Cd) 鎘含量	ppm	0.5	Not detected 未檢出	100
Di(2-ethylhexyl) Phthalate (DEHP) 鄰苯二甲酸二(2-乙基己基)酯(DEHP)	%	0.003	Not detected 未檢出	0.1
Di-n-octyl Phthalate (DNOP) 鄰苯二甲酸二正辛酯(DNOP)	%	0.003	Not detected 未檢出	0.1
Dibutyl Phthalate (DBP) 鄰苯二甲酸二丁酯(DBP)	%	0.003	Not detected 未檢出	0.1
Benzyl butyl Phthalate (BBP) 鄰苯二甲酸丁苯甲酯(BBP)	%	0.003	Not detected 未檢出	0.1
Di-isodecyl Phthalate (DIDP) 鄰苯二甲酸二異癸酯(DIDP)	%	0.003	Not detected 未檢出	0.1
Di-isononyl Phthalate (DINP) 鄰苯二甲酸二異壬酯(DINP)	%	0.003	Not detected 未檢出	0.1
Dimethyl Phthalate (DMP) 鄰苯二甲酸二甲酯(DMP)	%	0.003	Not detected 未檢出	0.1
Diethyl Phthalate (DEP) 鄰苯二甲酸二乙酯(DEP)	%	0.003	Not detected 未檢出	0.1



Test Conducted 測試內容：

Analysis of Food Utensils, Containers and Packages - Material Test and Migration Test (Cont'd)  
食品器具容器包裝檢測 - 材質試驗及溶出試驗 (續)

Result :  
檢驗結果

Test Item 檢驗項目	Unit 單位	Limit of quantitation 定量極限	Result 檢出值	Limit # 限值
<b>Migration Test 溶出試驗</b>				
Di(2-ethylhexyl) Phthalate (DEHP) 鄰苯二甲酸二(2-乙基己基)酯(DEHP) (n-Heptane, 25°C, 1 hour) (正庚烷、25°C、1 小時)	ppm	0.05	Not detected 未檢出	1.5
Dibutyl Phthalate (DBP) 鄰苯二甲酸二丁酯(DBP) (n-Heptane, 25°C, 1 hour) (正庚烷、25°C、1 小時)	ppm	0.05	Not detected 未檢出	0.3
Benzyl butyl Phthalate (BBP) 鄰苯二甲酸丁苯甲酯(BBP) (n-Heptane, 25°C, 1 hour) (正庚烷、25°C、1 小時)	ppm	0.05	Not detected 未檢出	30
Di-isononyl Phthalate (DINP) 鄰苯二甲酸二異壬酯(DINP) (n-Heptane, 25°C, 1 hour) (正庚烷、25°C、1 小時)	ppm	0.5	Not detected 未檢出	9
Di-isodecyl Phthalate (DIDP) 鄰苯二甲酸二異癸酯(DIDP) (n-Heptane, 25°C, 1 hour) (正庚烷、25°C、1 小時)	ppm	0.5	Not detected 未檢出	9
Di-2-ethylhexyl Adipate (DEHA) 己二酸二辛酯(DEHA) (n-Heptane, 25°C, 1 hour) (正庚烷、25°C、1 小時)	ppm	0.05	Not detected 未檢出	18

# : As per applicant's provided requirement  
依據客戶要求

CNS : Chinese National Standards 中華民國國家標準



Sample photo 樣品照片 :

The tested part is indicated with the red arrow on the sample photo  
樣品中紅色箭頭表示實際測試樣品部位



End of Report

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