

## TEST REPORT

Applicant: NEW ISLAND PRINTING GROUP CO LTD  
RM 1701 17/F BILLION PLAZA  
8 CHEUNG YUE ST  
CHEUNG SHA WAN KLN  
HK  
Attn: AARON NG

Number: HKGH0295670501

Date: Jan 13, 2023

*This is to supersede Report No.  
HKGH02956705 dated Jan 09, 2023  
due to information update*

Sample and Information provided by customer :  
Item Name : **AGS-WB**  
Quantity : 27 pieces  
Manufacturer : New Island Printing Group Co., Ltd.  
Country of Origin : China  
Date sample received : Dec 19, 2022  
Testing period : Dec 19, 2022 to Jan 09, 2023

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For and on behalf of :  
Intertek Testing Services HK Ltd.



Cindy I.K. Chan  
Vice President



## TEST REPORT

Number : HKGH0295670501

**Conclusion:**

The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details :

<u>Requirement</u>	<u>Result</u>
(1) U.S. F.D.A. Regulation 21 CFR Part 176.170 - Paper & paperboard	Pass
(2) Specifications and Standards and Testing Methods of "Foodstuffs", "Implements", "Containers and Packaging", "Toys" and "Detergents", Section III - Apparatus and Containers and Packages, (Notification No. 370 of Ministry of Health, Labour and Welfare, 1959), under the Japan Food Sanitation Law (Law No. 233, 1947) and (Notification of Standards and Evaluation Division, Dept. of Food Safety, Pharmaceutical and Food Safety Bureau, No. 0107001, Notice of Inspection and Safety Division, Dept. of Food Safety, Pharmaceutical and Food Safety Bureau, No. 0107001, 2004) for Fluorescent Substance.	Pass
(3) Specifications and Standards and Testing Methods of "Foodstuffs", "Implements", "Containers and Packaging", "Toys" and "Detergents", Section III - Apparatus and Containers and Packages, (Notification No. 370 of Ministry of Health, Labour and Welfare, 1959), under the Japan Food Sanitation Law (Law No. 233, 1947) - Coloring Matters	Pass
(4) Specifications and Standards and Testing Methods of "Foodstuffs", "Implements", "Containers and Packaging", "Toys" and "Detergents", Section III - Apparatus and Containers and Packages, (Notification No. 370 of Ministry of Health, Labour and Welfare, 1959), under the Japan Food Sanitation Law (Law No. 233, 1947) - Synthetic Resin in General	Pass
(5) Resolution ResAP (2004) 1 - Overall migration Test	Pass
(6) Council of Europe Resolution CM/Res (2020) 9 and EDQM Technical Guide on Paper and board used in food contact materials and articles, 2021, 1 <sup>st</sup> Edition - Sensory Evaluation	Pass
(7) Council of Europe Resolution CM/Res (2020) 9 and EDQM Technical Guide on Paper and board used in food contact materials and articles, 2021, 1 <sup>st</sup> Edition - Overall Gas Phase Migration	Pass
(8) Council of Europe Resolution CM/Res (2020) 9 and EDQM Technical Guide on Paper and board used in food contact materials and articles, 2021, 1st Edition - Colour Fastness of Dyed Paper and Board	Pass
(9) Council of Europe Resolution CM/Res (2020) 9 and EDQM Technical Guide on Paper and board used in food contact materials and articles, 2021, 1 <sup>st</sup> Edition - Specific Migration of 4,4'-Bis(dimethyl-amino) Benzophenone (Michler's ketone)	Pass
(10) Paper and board used in food contact materials and articles, EDQM 2021, 1 <sup>st</sup> Edition - Specific Migration of Bisphenol A	Pass
(11) Council of Europe Resolution CM/Res (2020) 9 and EDQM Technical Guide on Paper and board used in food contact materials and articles, 2021, 1 <sup>st</sup> Edition - Specific Migration of Polycyclic Aromatic Hydrocarbons	Pass



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<u>Requirement</u>	<u>Result</u>
(12) Council of Europe Resolution CM/Res (2020) 9 and EDQM Technical Guide on Paper and board used in food contact materials and articles, 2021, 1 <sup>st</sup> Edition - Specific Migration of Benzophenone, 2-Methyl benzophenone, 3-Methyl benzophenone and 4-Methyl benzophenone	Pass
(13) Council of Europe Resolution CM/Res (2020) 9 and EDQM Technical Guide on Paper and board used in food contact materials and articles, 2021, 1 <sup>st</sup> Edition - Specific Migration of Phthalates	Pass
(14) Council of Europe Resolution CM/Res (2020) 9 and EDQM Technical Guide on Paper and board used in food contact materials and articles, 2021, 1 <sup>st</sup> Edition - Specific Migration of Primary Aromatic Amines	Pass
(15) Council of Europe Resolution CM/Res (2020) 9 and EDQM Technical Guide on Paper and board used in food contact materials and articles, 2021, 1 <sup>st</sup> Edition - Specific Migration of Lead	Pass
(16) Council of Europe Resolution CM/Res (2020) 9 and EDQM Technical Guide on Paper and board used in food contact materials and articles, 2021, 1st Edition - Fastness of Fluorescent Whitened Paper and Board	Pass
(17) Council of Europe Resolution CM/Res (2020) 9 and EDQM Technical Guide on Paper and board used in food contact materials and articles, 2021, 1 <sup>st</sup> Edition - Transfer of antimicrobial constituents	Pass

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Decision Rule(s):

When a statement of conformity to a specification or standard is provided on test report, the decision rule shall be applied. For details, please refer to Intertek's "Decision Rule Document" and is available on Intertek's website. <https://intertekhk.grd.by/decision-rule-doc>.  
If decision rule already inlined in the requested specification or standard, Intertek's "Decision Rule Document" is not applicable and indication of "∞" was shown as above table.

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# TEST REPORT

Number : HKGH0295670501

(1) Test for F.D.A. Regulation on Paper/Paperboard

Test Standard : The U.S. Food and Drugs Administration 21 CFR Part 176.170.

I. Condition of use :

Hot filled or pasteurized above 150°F (65.6°C).

II. Test result :

Test Item	Result in mg/in <sup>2</sup>	Limit in mg/in <sup>2</sup>
	(1)	
Chloroform soluble extractive in n-Heptane extractant	<0.10	0.5

Component no.	Component description	Material type provided by client
1.	water-based varnished coated food grade cardboard	paper

Date sample received : Dec 16, 2022

Testing period : Dec 16, 2022 to Dec 30, 2022



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(2) Chemical Properties on Fluorescent Substance

Test method: Specifications and Standards and Testing Methods of "Foodstuffs", "Implements", "Containers and Packaging", "Toys" and "Detergents", Section III - Apparatus and Containers and Packages, (Notification No. 370 of Ministry of Health, Labour and Welfare, 1959), under the Japan Food Sanitation Law (Law No. 233, 1947) and (Notification of Standards and Evaluation Division, Dept. of Food Safety, Pharmaceutical and Food Safety Bureau, No. 0107001, Notice of Inspection and Safety Division, Dept. of Food Safety, Pharmaceutical and Food Safety Bureau, No. 0107001, 2004).

Component no.	Component description	Material type provided by client
A	water-based varnished coated food grade cardboard	paper

Tested component	Result	Requirement
(A)	Negative	Negative

Date sample received : Dec 16, 2022

Testing period : Dec 16, 2022 to Dec 30, 2022



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### (3) Chemical Properties on Coloring Matters

Test method: Specifications and Standards and Testing Methods of "Foodstuffs", "Implements", "Containers and Packaging", "Toys" and "Detergents", Section III - Apparatus and Containers and Packages, (Notification No. 370 of Ministry of Health, Labour and Welfare, 1959), under the Japan Food Sanitation Law (Law No. 233, 1947).

Component no.	Component description	Material type provided by client
A	water-based varnished coated food grade cardboard	paper

Requirement : No running of coloring matters was observed in the leaching solution

Leaching solution	Leaching condition	Result
		(A)
n-Heptane	At 25°C for 1 hour	NR
20% Ethanol	At 60°C for 30 minutes	NR
Water	At 60°C for 30 minutes	NR
4% Acetic acid	At 60°C for 30 minutes	NR

Remark :

NR = No Running of coloring matters was observed

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(4) Chemical Properties For Synthetic Resin in General

Test method: Specifications and Standards and Testing Methods of "Foodstuffs", "Implements", "Containers and Packaging", "Toys" and "Detergents", Section III - Apparatus and Containers and Packages, (Notification No. 370 of Ministry of Health, Labour and Welfare, 1959), under the Japan Food Sanitation Law (Law No. 233,1947).

<b>Tested Component :</b>
(A)   Water-based varnished coated food grade cardboard .(Paper)

Intended use of product: Temperature ≤ 100°C

Material type	Synthetic resin in general		
Parameter	Result	Limit	Conclusion
	(A)		
<b>i) General requirement</b>			
Elution test			
• Consumption of potassium permanganate	< 4 µg/ml	10 µg/ml	Pass
• Heavy metal (as lead)	< 1 µg/ml	1 µg/ml	Pass
Material test			
• Total cadmium (Cd)	< 5 µg/g	100 µg/g	Pass
• Total lead (Pb)	< 5 µg/g	100 µg/g	Pass

Remark : µg/ml = microgram per millilitre  
µg/g = microgram per gram

Date sample received : Dec 16, 2022  
Testing period : Dec 16, 2022 to Dec 28, 2022



# TEST REPORT

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(5) Overall Migration Test

Test method: Resolution ResAP (2004) 1.

I. Test condition :

Fatty food simulant	
Time	Temperature
2 hours	70 °C

II. Test result :

Tested component	Results (mg/dm <sup>2</sup> )
	Fatty food simulant
(1)	8
Limit (mg/dm <sup>2</sup> )	10

Component no.	Component description	Material type provided by client
1.	water-based varnished coated food grade cardboard	paper

Date sample received : Dec 16, 2022

Testing period : Dec 16, 2022 to Dec 30, 2022





# TEST REPORT

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## (6) Sensory Evaluation

Test Standard : EN 1230-1 : 2009 and EN 1230-2 : 2009.

### I. Odour

The test specimens were stored in a glass jar for 24 hours at 23°C in the dark, and a blank jar was set in the same manner as control. The odour of the air in the jars was estimated by a panel of 6 assessors. The intensity of the odour was evaluated on a scale from 0 to 4.

Tested component	Result (Score)	Requirement (Score)
(1)	0	<3

Score description :

- 0 = no perceptible odour
- 1 = odour just perceptible (difficult to define)
- 2 = weak odour
- 3 = clear odour
- 4 = strong odour

### II. Off-flavour (taint)

The test specimens were incubated in a glass desiccator at 23°C and 75% relative humidity under darkness with chocolate. Two sets of chocolate were set in the same manner as controls. After 44 - 48 hours of incubation, three sets of chocolate (2 controls and 1 sample) were presented as blind samples to a panel of 6 assessors. Any taint (off-flavour) transferred was evaluated by Triangle Test. The intensity of the taint was evaluated on a scale from 0 to 4.

Tested component	Result (Score)	Requirement (Score)
(1)	0	<3

Score description :

- 0 = no perceptible off-flavour
- 1 = just perceptible off-flavour (difficult to define)
- 2 = weak off-flavour
- 3 = clear off-flavour
- 4 = strong off-flavour

Component no.	Component description	Material type provided by client
1.	water-based varnished coated food grade cardboard	paper

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(7) Overall Gas Phase Migration

Test standard : EN 14338 and EDQM Technical Guide on Paper and board used in food contact materials and articles, 2021.

## I. Test condition :

Modified polyphenylene oxide	
Time	Temperature
2 hours	70 °C

## II. Test result :

Tested component	Result in mg/dm <sup>2</sup>
	Modified polyphenylene oxide
(1)	<3
Limit mg/dm <sup>2</sup>	10

Component no.	Component description	Material type provided by client
1.	water-based varnished coated food grade cardboard	paper

Date sample received : Dec 16, 2022

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Number : HKGH0295670501

(8) Colour Fastness of Dyed Paper and Board

Test Standard : EN 646 : 2018 Paper and board intended to come into contact with foodstuffs - Determination of colour fastness of dyed paper and board

Procedure applied : Procedure B: Medium time contact (4 hrs)

Side tested : Colour side

<u>Tested component</u>	<u>Deionized water</u>	<u>Aqueous acetic acid</u>	<u>Alkaline salt solution</u>	<u>Rectified olive oil</u>
(1)	5	<u>3.0% (m/v)</u> 5	<u>with pH8.6 ± 0.1</u> 5	5

Remark: Evaluating against ISO Grey Scale for Staining  
Requirement: No staining (Grade 5)

Tested component:  
(1) White and black printed paperboard.

Date sample received : Dec 16, 2022  
Test Period : Dec 16, 2022 to Dec 21, 2022



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(9) Specific Migration of 4,4'-Bis(dimethyl-amino) Benzophenone (Michler's ketone)

Test method : EN 15519, By Liquid Chromatographic – Mass Spectrometric (LC-MS) Analysis.

I. Test condition :

95% ethanol	
Time	Temperature
2 hours	60 °C

II. Result :

Compounds	Result (mg/kg)	Limit (mg/kg)
	(1)	
Michler's ketone	Not detected	Not detected

Remark :

Detection limit : 0.01 mg/kg

Component no.	Component description	Material type provided by client
1.	water-based varnished coated food grade cardboard	paper

Date sample received : Dec 16, 2022

Testing period : Dec 16, 2022 to Dec 30, 2022



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(10) Specific Migration of Bisphenol A

Test method : EN 15519, By Liquid Chromatographic – Mass Spectrometric (LC-MS) Analysis.

## I. Test condition :

95% ethanol	
Time	Temperature
2 hours	60 °C

## II. Result :

Compounds	Result (mg/kg)	Limit (mg/kg)
	(1)	
Bisphenol A	Not detected	Not detected

## Remark :

Detection limit : 0.01 mg/kg

Component no.	Component description	Material type provided by client
1.	water-based varnished coated food grade cardboard	paper

Date sample received : Dec 16, 2022

Testing period : Dec 16, 2022 to Dec 30, 2022



# TEST REPORT

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(11) Specific Migration of Polycyclic Aromatic Hydrocarbons

Test method : EN 15519, By Gas Chromatographic - Mass Spectrometry (GC/MS) analysis.

## I. Test condition :

Isooctane	
Time	Temperature
2 hours	60 °C

## II. Result :

Compound	Result	Requirement
	(1)	
Sum of Benzo[a]pyrene, Benzo[a]anthracene, Benzo[b]fluoranthene and Chrysene	Not detected	Not detected

Remark :

Detection limit : 1 µg/kg

Component no.	Component description	Material type provided by client
1.	water-based varnished coated food grade cardboard	paper

Date sample received : Dec 16, 2022

Testing period : Dec 16, 2022 to Dec 30, 2022



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(12) Specific Migration of Benzophenone, 2-Methyl benzophenone, 3-Methyl benzophenone and 4-Methyl benzophenone

Test method : EN 15519, By Gas Chromatographic – Mass Spectrometric (GC/MS) Analysis.

I. Test condition :

95% ethanol	
Time	Temperature
2 hours	60 °C

II. Result :

Compounds	Result (mg/kg)	Limit (mg/kg)
	(1)	
Sum of Benzophenone + 2-Methyl benzophenone + 3-Methyl benzophenone + 4-Methyl benzophenone	0.04	0.6
Sum of 2-Methyl benzophenone + 3-Methyl benzophenone + 4-Methyl benzophenone	<0.01	0.05

Component no.	Component description	Material type provided by client
1.	water-based varnished coated food grade cardboard	paper

Date sample received : Dec 16, 2022

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(13) Specific Migration of Phthalates

Test method : EN 15519, By Gas Chromatographic - Mass Spectrometry (GC/MS) analysis.

I. Test condition :

Isooctane	
Time	Temperature
2 hours	60 °C

II. Result :

Compounds	Result (mg/kg)	Limit (mg/kg)
	(1)	
Benzyl butyl phthalate (BBP)	<1	3
Diethyl hexyl phthalate (DEHP)	<0.2	0.3
Sum of Diisobutyl phthalate (DIBP) + Dibutyl phthalate (DBP)	<0.01	0.012
Sum of Diisononyl phthalate (DINP) + Diisodecyl phthalate (DIDP)	<0.2	0.9

Component no.	Component description	Material type provided by client
1.	water-based varnished coated food grade cardboard	paper

Date sample received : Dec 16, 2022

Testing period : Dec 16, 2022 to Dec 30, 2022





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(14) Specific Migration of Primary Aromatic Amines

Test method: EN647 and EDQM 2021, by Liquid Chromatograph - Tandem Mass Spectrometry (LC-MS/MS) Analysis.

Result :

Compound		Result (mg/kg) (1)	Detection Limit (mg/kg)	Limit (mg/kg)
4-Aminodiphenyl	92-67-1	ND	0.002	0.002
Benzidine	92-87-5	ND	0.002	0.002
4-Chloro-o-toluidine	95-69-2	ND	0.002	0.002
2-Naphthylamine	91-59-8	ND	0.002	0.002
o-Aminoazotoluene	97-56-3	ND	0.002	0.002
2-Amino-4-nitrotoluene	99-55-8	ND	0.002	0.010
p-Chloroaniline	106-47-8	ND	0.002	0.002
2,4-Diaminoanisole	615-05-4	ND	0.002	0.002
4,4'-Diaminodiphenylmethane	101-77-9	ND	0.002	0.002
3,3'-Dichlorobenzidine	91-94-1	ND	0.002	0.002
3,3'-Dimethoxybenzidine	119-90-4	ND	0.002	0.002
3,3'-Dimethylbenzidine	119-93-7	ND	0.002	0.002
3,3'-Dimethyl-4,4'-diamino diphenylmethane	838-88-0	ND	0.002	0.002
p-Cresidine	120-71-8	ND	0.002	0.002
4,4'-Methylene-bis (2-chloroaniline)	101-14-4	ND	0.002	0.002
4,4'-Oxydianiline	101-80-4	ND	0.002	0.002
4,4'-Thiodianiline	139-65-1	ND	0.002	0.002
o-Toluidine	95-53-4	ND	0.002	0.002
2,4-Toluylenediamine	95-80-7	ND	0.002	0.002
2,4,5-Trimethylaniline	137-17-7	ND	0.002	0.002
o-Anisidine	90-04-0	ND	0.002	0.002
4-Aminoazobenzene	60-09-3	ND	0.002	0.002
m-Phenylendiamine	108-45-2	ND	0.002	0.010
Benzoguanamin	91-76-9	ND	0.05	5
4,4'-Methylenebis(3-chloro-2,6-diethylaniline)	106246-33-7	ND	0.05	0.05
Total of other primary aromatic amines	/	ND	0.010	0.010

Remark :  
ND = Not detected



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Other primary aromatic amines as listed in appendix 1 are included in the analysis.

Appendix 1: List of Other Primary Aromatic Amines	
p-phenylenediamine	106-50-3
Aniline	62-53-3
2,4-xylidine	95-68-1
2,6-xylidine	87-62-7
3-Methoxyaniline	536-90-3
2,6-toluenediamine	823-40-5
1,5-diaminonaphthalene	2243-62-1
4-ethoxyaniline	156-43-4
3-amino-4-methoxybenzanilide	120-35-4
3-amino-4-methylbenzamide	19406-86-1
2-amino-5-methylbenzoic acid	2941-78-8
1-Amino-2-naphthol	2834-92-6
4-Chloro-2-nitroaniline	89-63-4
2-Aminobenzoic acid butyl ester	7756-96-9
2,4,5-Trichloraniline	636-30-6
2,4-Dichloroaniline	554-00-7
5-Chloro-o-toluidine	95-79-4
o-Phenylenediamine	95-54-5
m-Chloroaniline	108-42-9
o-Chloroaniline	95-51-2
m-Toluidine	108-44-1
p-Toluidine	106-49-0
2-Methoxy-4-nitroaniline	97-52-9
2-Ethoxyaniline	94-70-2
5-Chloro-2-methoxyaniline	95-03-4
4-Chloro-3-methoxyaniline	13726-14-2
5-Amino-6-methyl-1,3-dihydrobenzoimidazol-2-one	67014-36-2
p-Aminobenzamide	2835-68-9
2,5-Dichloroaniline	95-82-9
2-Chloro-4-nitroaniline	121-87-9
2,5-Dimethoxy-4-chloroaniline	6358-64-1
2,4-Dinitroaniline	97-02-9
4-Aminotoluene-3-sulfonic acid	88-44-8
2-Aminobiphenyl	90-41-5
Dimethyl-2-aminoterephthalate	5372-81-6
2-Amino-1-naphthalenesulfonic acid	81-16-3
2-Methyl-4-nitroaniline	99-52-5
2-Nitroaniline	88-74-4

Component no.	Component description	Material type provided by client
1.	water-based varnished coated food grade cardboard	paper

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(15) Specific Migration of Lead

Test standard : Commission Regulation (EU) No. 10/2011 and its amendments.

I. Test condition :

3% (w/v) Acetic acid	
Time	Temperature
2 hours	70 °C

II. Test Results :

Food simulant: 3% (w/v) acetic acid		
Element	Result in mg/kg	Limit in mg/kg
	(1)	
Lead (Pb)	<0.01	ND (0.01)

Remark :  
ND = Not detected

Component no.	Component description	Material type provided by client
1.	water-based varnished coated food grade cardboard	paper

Date sample received : Dec 16, 2022  
Testing period : Dec 16, 2022 to Dec 30, 2022



# TEST REPORT

Number : HKGH0295670501

(16) Fastness of Fluorescent Whitened Paper and Board

Test Standard : EN 648 : 2018 Paper and board intended to come into contact with foodstuffs - Determination of the fastness of fluorescent whitened paper and board

Procedure applied : Procedure B: Medium time contact (4 hrs)  
Side tested : Colour side

<u>Tested component</u>	<u>Deionized water</u>	<u>Aqueous acetic acid</u>	<u>Alkaline salt solution</u>	<u>Rectified olive oil</u>
(1)	5	<u>3.0% (m/v)</u> 5	<u>with pH8.6 ± 0.1</u> 5	5

Remark: Evaluating against Fluorescent Whitened Agent Paper  
Requirement: No fluorescence (Grade 5)

Tested component:  
(1) White and black printed paperboard.

Date sample received : Dec 16, 2022  
Test Period : Dec 16, 2022 to Dec 21, 2022



## TEST REPORT

Number : HKGH0295670501

(17) Determination of the transfer of antimicrobial constituents

Test Standard : BS EN 1104:2018, British Standard, Paper and board intended to come into contact with foodstuffs - Determination of the transfer of antimicrobial constituents.

Test culture : *Bacillus subtilis* (ATCC 6633).  
*Aspergillus niger* (ATCC 6275).

Incubation temperature : 30°C (for *Bacillus subtilis*)  
25°C (for *Aspergillus niger*)

Incubation period : 3 days (for *Bacillus subtilis*) & 5 days (for *Aspergillus niger*)

Agar medium : Nutrient Agar (for *Bacillus subtilis*)  
Sabouraud Dextrose Agar (for *Aspergillus niger*)

Test specimen : 12 mm in diameter / color surface of submitted sample

Test microorganism	Result
<i>Bacillus subtilis</i>	Absence of inhibition ^ (Number of positive result : 0 of 9 test pieces)
<i>Aspergillus niger</i>	Absence of inhibition (Number of positive result : 0 of 9 test pieces)
Criteria	Absence of inhibition

Remark: ^ = Presence of a modification of the microorganism growth at the edges of the test piece (in 5.7mm width)

Sample received condition: sample in closed plastic bag.

Date sample received : Dec 16, 2022

Testing period : Dec 19, 2022 to Jan 09, 2023



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Number : HKGH0295670501



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End of report

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*The observations and test results in this report are relevant to the sample(s) tested and submitted by client. The report is not intended to be a recommendation for any particular course of action, you are responsible for acting as you see fit on the basis of the report results. This report does not discharge or release you from your legal obligations and duties to any other person. Only the Client is authorized to permit copying or distribution of this report and the report shall not be reproduced except in full. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.*



To: NEW ISLAND PRINTING GROUP CO LTD Ref: FC-2023-0387  
Attention: AARON NG Date: Jan 13, 2023

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Re : Report Revision Notification

Intertek Testing Services Report Number HKGH02956705 Dated Jan 09, 2023

Please be informed that all the content recorded in the above captioned report will be void. This captioned report is now superseded by a revised Intertek Testing Services report, HKGH0295670501 - HKGH0295670502

Thank you for your attention.

For and on behalf of :  
Intertek Testing Services HK Ltd.



Cindy I.K. Chan  
Vice President