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TESTING
CNAS L3150



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Test Report

No.: ED210126006CER002

Date: Feb. 22, 2021

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Applicant : INDUSTRIAS BETIK, S.A.
Address : Obispo otaduy Street, 7-w, Oñati, Spain

Sample Name : 7" cornstarch knife, 7"cornstarch fork, 7" cornstarch spoon, 5" cornstarch spoon
Style/Item No. : K-07G, F-07G, S-07G, S-05
Material : Starch,edible 70%(CAS:0009005-25-8)/
Polypropylene 30%(CAS:0009003-07-0)

Received Date : Jan. 26, 2021
Test Period : Jan. 26, 2021 ~ Feb. 03, 2021
The First Revise Date : Feb. 04, 2021
The Second Revise Date : Feb. 22, 2021

Test Requested : As specified by the client, For compliance with the Commission Regulation (EU) No 10/2011 and amendment directive (EU) 2020/1245 & DGCCR 2004-64 on plastic materials and articles intended to come into contact with food:
1) Overall migration
2) Specific migration of metal elements
3) Specific migration of Primary aromatic amines

Test Results : Please refer to next page(s).

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Test Report

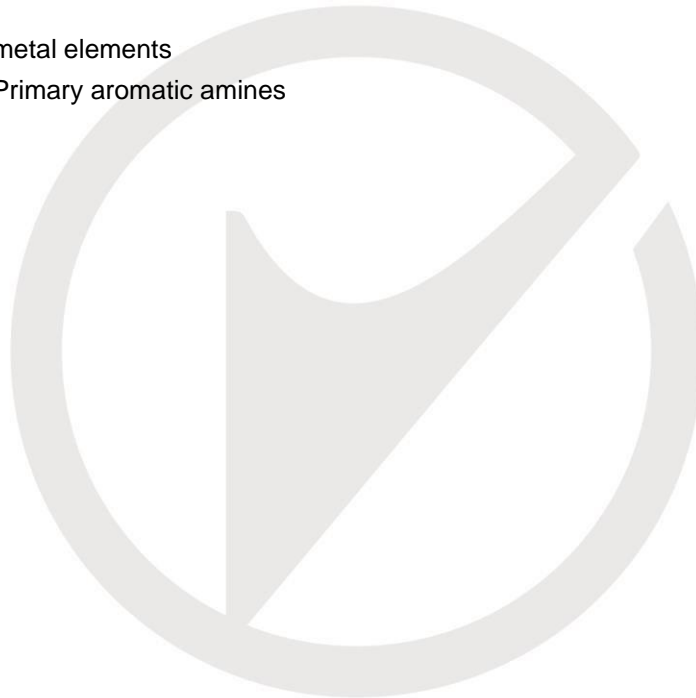
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Executive Summary:

STANDARD	CONCLUSION
Commission Regulation (EU) No 10/2011 and amendment directive (EU) 2020/1245 & DGCCRF 2004-64 on plastic materials and articles intended to come into contact with food	---
1) Overall migration	PASS
2) Specific migration of metal elements	PASS
3) Specific migration of Primary aromatic amines	PASS



Signed for and on behalf of
EMTEK(Dongguan) Co., Ltd.

Prepared by:

Zhu Weiping, Cherry
Report Engineer

Reviewed by:

Zhang Hongjing, Carrie
Supervisor

Approved by:

Li Wei, Lisa
Authorized signatory
Feb. 22, 2021

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Test Results:

1) Overall migration

Test Method: BS EN1186-1:2002 & BS EN1186-3:2002 & BS EN1186-14:2002.

Test Items	Test condition	Test Result (mg/dm ²)			Maximum Permissible limit (mg/dm ²)
		1			
		First	Second	Third	
Overall migration in 3% acetic acid (w/v)	100°C, 1h	<1.0	<1.0	<1.0	10
Overall migration in 10% ethanol (v/v)	100°C, 1h	<1.0	<1.0	<1.0	10
Overall migration in 50% ethanol (v/v)	100°C, 1h	1.23	<1.0	<1.0	10
Overall migration in 95% ethanol (v/v)	60°C, 3h	1.76	<1.0	<1.0	10
Overall migration in iso-octane	60°C, 1h	1.64	1.01	<1.0	10

Note: mg/dm² = milligram per square decimeter < = Less than

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Test Results:

2) *Specific migration of metal elements

Test Method: To refer to the In-house method.

Test Item(s)	Test Condition	Test Results (mg/kg)			Requirement (mg/kg)
		1			
		First	Second	Third	
Aluminum (Al)	3% acetic acid, 100°C, 1h (three times)	<0.1	<0.1	<0.1	1
Ammonium		<0.002	<0.002	<0.002	--
Antimony (Sb)		<0.01	<0.01	<0.01	0.04
Arsenic (As)		<0.01	<0.01	<0.01	ND
Barium (Ba)		<0.1	<0.1	<0.1	1
Cadmium (Cd)		<0.002	<0.002	<0.002	ND
Calcium (Ca)		<0.002	<0.002	<0.002	--
Chromium (Cr)		<0.01	<0.01	<0.01	ND
Cobalt (Co)		<0.01	<0.01	<0.01	0.05
Copper (Cu)		<0.5	<0.5	<0.5	5
Europium (Eu)		<0.01	<0.01	<0.01	0.05
Gadolinium (Gd)		<0.01	<0.01	<0.01	0.05
Iron (Fe)		<2	<2	<2	48
Lanthanum (La)		<0.01	<0.01	<0.01	0.05
Lead (Pb)		<0.01	<0.01	<0.01	ND
Lithium (Li)		<0.1	<0.1	<0.1	0.6
Magnesium (Mg)		<0.002	<0.002	<0.002	--
Manganese (Mn)		<0.1	<0.1	<0.1	0.6
Mercury (Hg)		<0.01	<0.01	<0.01	ND
Nickel (Ni)		<0.02	<0.02	<0.02	0.02
Potassium (K)	<0.002	<0.002	<0.002	--	
Sodium (Na)	<0.002	<0.002	<0.002	--	
Terbium (Tb)	<0.01	<0.01	<0.01	0.05	
Zinc (Zn)	<0.5	<0.5	<0.5	5	

Note: 1. mg/kg = part per million = ppm < = Less than ND = Not Detected

2. "★" = The test about this project was not within the scope of CNAS accreditations.

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Test Results:

3) Specific migration of Primary aromatic amines

Test Method: To refer to EN 13130-1:2004, the analysis was performed by GC-MS.

Test Condition: 3% acetic acid, 100°C, 1h (three times)

Test Items	Test Result (mg/kg food simulant)			Maximum Permissible limit (mg/kg food simulant)
	1			
	First	Second	Third	
4-aminodiphenyl	<0.002	<0.002	<0.002	Non-detectable
Benzidine	<0.002	<0.002	<0.002	Non-detectable
4-chloro-o-toluidine	<0.002	<0.002	<0.002	Non-detectable
2-naphthylamine	<0.002	<0.002	<0.002	Non-detectable
o-aminoazotoluene	<0.002	<0.002	<0.002	Non-detectable
2-amino-4-nitrotoluene	<0.002	<0.002	<0.002	Non-detectable
p-chloroaniline	<0.002	<0.002	<0.002	Non-detectable
2,4-diaminoanisole	<0.002	<0.002	<0.002	Non-detectable
4,4'-diaminodiphenylmethane	<0.002	<0.002	<0.002	Non-detectable
3,3'-dichlorobenzidine	<0.002	<0.002	<0.002	Non-detectable
3,3'-dimethoxybenzidine	<0.002	<0.002	<0.002	Non-detectable
3,3'-dimethylbenzidine	<0.002	<0.002	<0.002	Non-detectable
3,3'-dimethyl-4,4'-diaminodiphenylmethane	<0.002	<0.002	<0.002	Non-detectable
p-cresidine	<0.002	<0.002	<0.002	Non-detectable
4,4'-methylene-bis-(2-chloroaniline)	<0.002	<0.002	<0.002	Non-detectable
4,4'-oxydianiline	<0.002	<0.002	<0.002	Non-detectable
4,4'-thiodianiline	<0.002	<0.002	<0.002	Non-detectable
o-toluidine	<0.002	<0.002	<0.002	Non-detectable
2,4-diaminotoluene	<0.002	<0.002	<0.002	Non-detectable
2,4,5-trimethylaniline	<0.002	<0.002	<0.002	Non-detectable
2-methoxyaniline	<0.002	<0.002	<0.002	Non-detectable
4-aminoazobenzene	<0.002	<0.002	<0.002	Non-detectable
1,3-phenylenediamine	<0.002	<0.002	<0.002	Non-detectable

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Test Items	Test Result (mg/kg food simulant)			Maximum Permissible limit (mg/kg food simulant)
	1			
	First	Second	Third	
2,4-xylydine	<0.002	<0.002	<0.002	SUM: <0.01
2,6-xylydine	<0.002	<0.002	<0.002	
p-Phenylenediamine	<0.002	<0.002	<0.002	
Aniline	<0.002	<0.002	<0.002	

Note: mg/kg food simulant = milligram per kilogram food stimulant < = Less than

Tested Materials:

No.	Description	Material
1	White hard plastic	Starch,edible 70%(CAS:0009005-25-8)/ Polypropylene 30%(CAS:0009003-07-0)

Declaration: Report ED210126006CER001 was repealed and replaced by Report ED210126006CER002.

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Sample Photo



*** End of Report ***

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