

HATEK



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REPORT COVER PAGE

Ningbo HATEK Co., Ltd.

Ningbo HATEK Co., Ltd.

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TEST REPORT

Report No.: HA0121020452CHEM

Date:2021-2-26

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Applicant : The Legacy Companies
Address : 3355 Enterprise Ave, Suite 160, Fort Lauderdale, FL 33331 USA
Manufacturer : Same as the applicant
Address : Same as the applicant

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

Brand Name : Excalibur
Product Name : Food Dehydrators
Product Model : 4400220, 4500220, 4526T220, 4548, 4526TCD220, 4900220,
4926T220, 4926TCD220, 4948, Res10, D502CDSHD, D902CDSHD
Date of Sample Received : December 03, 2020
Sample Testing Date : December 03, 2020 to December 13, 2020

Test Requested	For material which contact with foodstuff, selected tests were performed for compliant with the following regulations: - In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30 and 31 and BfR recommendation. - Regulation EU 2020/1245 of the European Parliament on materials and articles intended to come into contact with food and EU Regulation 10/2011 for plastic materials which are intended to come into contact with food. - Council of Europe Resolution CM/Res(2013)9.
Test Result	Please refer to next pages
Test Conclusion	Pass

***** For Further Details, Please Refer to the Following Page(s) *****

Compiled by:

Fiona Zhang

Fiona Zhang / Project Engineer



Milser Xie / Laboratory Supervisor

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Test Results:**1. SENSORIAL EXAMINATION**

Test Items	Testing Condition	Result	Limit (scale)
		No.1	
Smell	Distilled water, 24 hours, RT	0	2.5
Taste	Distilled water, 24 hours, RT	0	2.5
Conclusion	---	Pass	---

Note:

1. Method: With reference to DIN 10955: 2004. The submitted sample was treated with food stimulant.
2. Evaluation scheme for the transfer of taste and smell:

Scale:

- 0 = no discernible deviation
- 1 = barely discernible deviation
- 2 = weak deviation
- 3 = clear deviation
- 4 = strong deviation

2. OVERALL MIGRATION TEST FOR PLASTIC

Test method: As specified in Regulation (EU) No.10/2011, with reference to EN 1186:part 1, part 2, part 3, part 8, part 9 & part 14 :2002.

Simulant Used	Test Condition	Result [mg/dm ²]	Maximum Permissible Limit [mg/dm ²]
		No.1	
3% Acetic acid	70°C for 2hour	< 3.0	10
50% Ethanol	70°C for 2hour	< 3.0	10
Conclusion	---	Pass	---

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3. SPECIFIC MIGRATION OF HEAVY METALS TEST

Test method: As specified in Regulation (EC) No. 1935/2004, the sample(s) were migrated with food simulant, followed by Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES) analysis.

Testing condition and simulant: Distilled water at 100 °C for 2 hour(s).

Soluble Element	Unit	Limit	Result	Conclusion
			No.1	
Barium (Ba)	mg/kg	1	<0.1	Pass
Cobalt (Co)	mg/kg	0.05	<0.01	Pass
Copper (Cu)	mg/kg	5	<0.5	Pass
Iron (Fe)	mg/kg	48	<1	Pass
Lithium (Li)	mg/kg	0.6	<0.1	Pass
Manganese (Mn)	mg/kg	0.6	<0.1	Pass
Zinc (Zn)	mg/kg	25	<1	Pass
Aluminum (Al)	mg/kg	1	<0.1	Pass
Nickel (Ni)	mg/kg	0.02	<0.01	Pass
Ammonium	mg/kg	---	ND	Pass
Stibium (Sb)	mg/kg	0.04	<0.01	Pass
Arsenic (As)	mg/kg	ND	ND	Pass
Cadmium (Cd)	mg/kg	ND	ND	Pass
Calcium (Ca)	mg/kg	---	ND	Pass
Chromium (Cr)	mg/kg	ND	ND	Pass
Europium (Eu)	mg/kg	0.05	<0.01	Pass
Gadolinium (Gd)	mg/kg	0.05	<0.01	Pass
Lanthanum (La)	mg/kg	0.05	<0.01	Pass
Lead (Pb)	mg/kg	ND	ND	Pass
Magnesium (Mg)	mg/kg	---	ND	Pass
Mercury (Hg)	mg/kg	ND	ND	Pass
Potassium (K)	mg/kg	---	ND	Pass
Sodium (Na)	mg/kg	---	ND	Pass
Terbium (Tb)	mg/kg	0.05	<0.01	Pass

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4. SPECIFIC MIGRATION OF PRIMARY AROMATIC AMINE TEST

Test method: With reference to EN 1186-1: 2002, followed by Kunststoffe im Lebensmittelverkehr, Book 2, Teil B II, XXI. [Detection limit: 0.01 mg/kg]

Testing condition and simulant: Distilled water at 100 °C for 2 hour(s).

Test Item	Result [mg/kg]	Maximum Permissible Limit [mg/kg]
	No.1	
Migration of Primary Aromatic Amine	<0.01	Not Detected (< 0.01 mg/kg)

Note:

1. "mg/kg" denotes milligram per kilogram foodstuff.
2. "<" denotes less than.
3. The specification was quoted from Regulation (EU)10/2011

5. SPECIFIC MIGRATION OF Bisphenol A TEST

Test condition: 3% Acetic acid, 2 hour(s) at 70 °C

Test Item	Result [mg/kg]	Maximum Permissible Limit [mg/kg]
	No.1	
Migration of Bisphenol A	< 0.1	0.6
Conclusion	Pass	---

Note:

1. "<" = Less than.
2. ppm = mg/kg =0.0001%.
3. Method: With reference to EN 13130-1:2004, determined by GC-MS.

6. HEAVY METAL EXTRACTABLE

Test Method: With reference to EN 13130-1: 2004, analysis was performed by ICP-OES and ICP-MS.

Test Items	Test condition	Unit	Results	MDL	Limit (3 rd migration)
			(3 rd migration) No.2		
Aluminium (Al)	0.5% Citric Acid, 2 hours at 100°C	mg/kg	N.D.	0.2	5
Antimony (Sb)		mg/kg	N.D.	0.02	0.04
Chromium (Cr)		mg/kg	N.D.	0.1	0.25
Cobalt (Co)		mg/kg	N.D.	0.01	0.02
Copper (Cu)		mg/kg	N.D.	0.1	4

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Iron (Fe)	mg/kg	N.D.	0.25	40
Manganese (Mn)	mg/kg	N.D.	0.25	1.8
Molybdenum (Mo)	mg/kg	N.D.	0.02	0.12
Nickel (Ni)	mg/kg	N.D.	0.05	0.14
Silver (Ag)	mg/kg	N.D.	0.03	0.08
Tin (Sn)	mg/kg	N.D.	5	100
Vanadium (V)	mg/kg	N.D.	0.005	0.01
Zinc (Zn)	mg/kg	N.D.	1	5
Arsenic (As)	mg/kg	N.D.	0.001	0.002
Barium (Ba)	mg/kg	N.D.	0.25	1.2
Beryllium (Be)	mg/kg	N.D.	0.005	0.01
Cadmium (Cd)	mg/kg	N.D.	0.002	0.005
Lead (Pb)	mg/kg	N.D.	0.005	0.01
Lithium (Li)	mg/kg	N.D.	0.02	0.048
Mercury (Hg)	mg/kg	N.D.	0.002	0.003
Thallium (Tl)	mg/kg	N.D.	0.0001	0.0001

Note:

1. ppm = mg/kg =0.0001%.
2. N.D. = Not Detected.
3. MDL= Method Detection Limit.
4. According to Council of Europe Resolution CM/Res (2013)9, The result from 3rd migration shall comply with the Specific Release Limit (SRL) and the sum of 1st and 2nd migration shall not exceed seven times of SRL for repeated use articles.

Tested Sample Description:

- No.1: Black plastic PC tray
No.2: Stainless steel net

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Sample Photo:

Overall view of EUT (EXC10EL)



Overall view of EUT (4926T)



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Overall view of EUT (4400)



Overall view of EUT (4948CDB)



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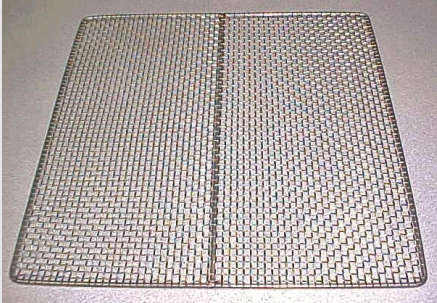
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Tested Sample Description:

Sample No.	Material and Description	Photo
1	PC	
2	Stainless steel	

===== End of Test Report=====

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