



Test Report

Report No : TST25235600360CR

Date: Nov.13, 2025

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Applicant : Anhui Ruitu Communication Equipment Co., Ltd.
Address : East of Changning Road and North of Ronghua Road, Chahe Economic Development Zone,
Laian County, Chuzhou City, Anhui Province, China.
Manufacturer : Anhui Ruitu Communication Equipment Co., Ltd.
Address : East of Changning Road and North of Ronghua Road, Chahe Economic Development Zone,
Laian County, Chuzhou City, Anhui Province, China.

The following sample(s) was /were submitted and identified on behalf of the clients as :

Sample Name : HDPE Plastic Bottle
Model No. : 60ML
Additional Model : 100ML,120ML,250ML,500ML,1L,1.5L,5L,10L
Sample Received Date : Nov.10, 2025
Testing Period : Nov.10, 2025 To Nov.13, 2025
Test Requested : In accordance with Commission Regulation(EU)No.2017/752,
(EU)No.2024/3190,(EU)No.2020/1245, (EU) No.10/2011, (EC) No.1935/2004 and
articles intended to come into contact with food.
Test Method : Please refer to next page(s).
Test Result : Please refer to next page(s).

Signed for and on behalf of



Scan QR code
verification of authenticity

Andy Zheng
Technical Director

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Result Summary:

Test Requested	Conclusion
Sensory test-taste and odour to the integrate product	Pass
Overall Migration in 10% ethanol	Pass
Overall Migration in 20% ethanol	Pass
Overall Migration in 3% acetic acid	Pass
Overall Migration in 50% ethanol	Pass
Specific Migration of 19 Heavy metals in 3% acetic acid	Pass
Specific Migration of Aromatic amine (PAA) in 3% acetic acid	Pass
Phthalate content	Pass

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Component list:(For chemical Test):

No.	Component Description
1	HDPE plastic bucket

Test Result(s):(No.1)

1.1.Sensory test-taste and odour to the integrate product

Sensorial examination odour and taste test

Test Method: Sensorial examination odour and taste test with reference to DIN 10955:2024-01;

Test condition: Odour test 70°C,2h;

Taste test: sunflower oil ,70°C,2h.

Test Item (s)	Result	Limit
Sensorial examination odour (Point scale)	0	2.5
Sensorial examination taste (Point scale)	0	2.5

Note: Odour/Taste Grade
0= No perceptible difference
1= Just perceivable difference(still difficult to define)
2= Slight difference
3= Marked difference
4= Strong difference
5. This part of the test is holistic test

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1.2.Overall Migration

Method: Refer to EN1186-1:2002,EN1186-3:2022

Material	Test Condition	Limit (mg/dm ²)	Result(mg/dm ²)			Conclusion
			1st	2nd	3rd	
1	3% acetic acid, 70℃,2hours	10	<3	<3	<3	PASS
	10% Ethanol, 70℃,2hours	10	<3	<3	<3	PASS
	20% Ethanol, 70℃,2hours	10	<3	<3	<3	PASS
	50% Ethanol, 70℃,2hours	10	<3	<3	<3	PASS

Note:

- 1.mg/dm² = milligram per square decimetre of surface area of material or article.
- 2.mg/kg = milligrams of the constituents released per kilogram of foodstuff.
- 3.The requirement in accordance with the Commission Regulation (EU) No.2020/1245.
- 4.Surface area/volume ratio in 0.48dm²/48mL.

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1.3. Specific Migration of 19 Heavy metals

Method: Refer to EN 13130-1:2004, was analyzed by ICP-OES.

Test Item(s)	Unit	Test conditions	Result(Migration of)			RL	Limit
			1st	2nd	3rd		
Aluminum(Al)	mg/kg	70°C, 2h, 3 %Acetic acid	N.D.	N.D.	N.D.	0.01	1
Antimony(Sb)	mg/kg		N.D.	N.D.	N.D.	0.01	0.04
Arsenic(As)	mg/kg		N.D.	N.D.	N.D.	0.01	N.D.
Barium(Ba)	mg/kg		N.D.	N.D.	N.D.	0.01	1
Cadmium(Cd)	mg/kg		N.D.	N.D.	N.D.	0.002	N.D.
Chromium(Cr)	mg/kg		N.D.	N.D.	N.D.	0.01	N.D.
Cobalt(Co)	mg/kg		N.D.	N.D.	N.D.	0.01	0.05
Copper(Cu)	mg/kg		N.D.	N.D.	N.D.	0.01	5
Europium(Eu)	mg/kg		N.D.	N.D.	N.D.	0.01	0.05
Gadolinium(Gd)	mg/kg		N.D.	N.D.	N.D.	0.01	0.05
Iron(Fe)	mg/kg		N.D.	N.D.	N.D.	0.1	48
Lanthanum(La)	mg/kg		N.D.	N.D.	N.D.	0.01	0.05
Lead(Pb)	mg/kg		N.D.	N.D.	N.D.	0.01	N.D.
Lithium(Li)	mg/kg		N.D.	N.D.	N.D.	0.01	0.6
Manganese(Mn)	mg/kg		N.D.	N.D.	N.D.	0.01	0.6
Mercury(Hg)	mg/kg		N.D.	N.D.	N.D.	0.01	N.D.
Nickel(Ni)	mg/kg		N.D.	N.D.	N.D.	0.01	0.02
Terbium(Tb)	mg/kg		N.D.	N.D.	N.D.	0.01	0.05
Zinc(Zn)	mg/kg		N.D.	N.D.	N.D.	0.1	5

Note:

1. mg/kg =milligrams per kilogram
2. N.D. = Not Detected (<RL)
3. RL=Reporting Limit

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1.4. Specific Migration of Aromatic amine (PAA)

Test Method: 3 %Acetic acid, 70°C, 2 hours, Refer to EN 13130-1:2004, was analyzed by HPLC.

No.	Name	CAS No.	Result			RL
			1st	2nd	3rd	
1	4-Aninobiphenyl	92-67-1	N.D.	N.D.	N.D.	0.002
2	4-Chloro-o-toluidine	95-69-2	N.D.	N.D.	N.D.	0.002
3	2-Naphthylamine	91-59-8	N.D.	N.D.	N.D.	0.002
4	o-Aminoazotoluene	97-56-3	N.D.	N.D.	N.D.	0.002
5	2-Amino-4-nitrotoluene	99-55-8	N.D.	N.D.	N.D.	0.002
6	p-Chloroaniline	106-47-8	N.D.	N.D.	N.D.	0.002
7	2,4-Diaminoanisole	615-05-4	N.D.	N.D.	N.D.	0.002
8	4,4'-Diaminobiphenylmethane	101-77-9	N.D.	N.D.	N.D.	0.002
9	3,3'-Dichlorobenzidine	91-94-1	N.D.	N.D.	N.D.	0.002
10	3,3'-Dimethoxybenzidine	119-90-4	N.D.	N.D.	N.D.	0.002
11	3,3'-Dimethylbenzidine	119-93-7	N.D.	N.D.	N.D.	0.002
12	3,3'-Dimethyl-4,4'-diaminobiphenylmethane	838-88-0	N.D.	N.D.	N.D.	0.002
13	p-Cresidine	120-71-8	N.D.	N.D.	N.D.	0.002
14	4,4'-Methylene-bis- (2-chloroaniline)	101-14-4	N.D.	N.D.	N.D.	0.002
15	4,4'-Oxydianiline	101-80-4	N.D.	N.D.	N.D.	0.002
16	4,4'-Thiodianiline	139-65-1	N.D.	N.D.	N.D.	0.002
17	o-Toluidine	95-53-4	N.D.	N.D.	N.D.	0.002
18	2,4-Toluylendiamine	95-80-7	N.D.	N.D.	N.D.	0.002
19	2,4,5-Trimethylaniline	137-17-7	N.D.	N.D.	N.D.	0.002
20	o-Anisidine	90-04-0	N.D.	N.D.	N.D.	0.002
21	2,4-Xylidine	95-68-1	N.D.	N.D.	N.D.	0.002
22	2,6-Xylidine	87-62-7	N.D.	N.D.	N.D.	0.002
23	m-phenylenediamine	108-45-2	N.D.	N.D.	N.D.	0.002
Sum of PAAs		-	N.D.	N.D.	N.D.	0.01

Note:

1. mg/kg=milligrams per kilogram

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3. RL=Reporting Limit

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1.5. Phthalate content

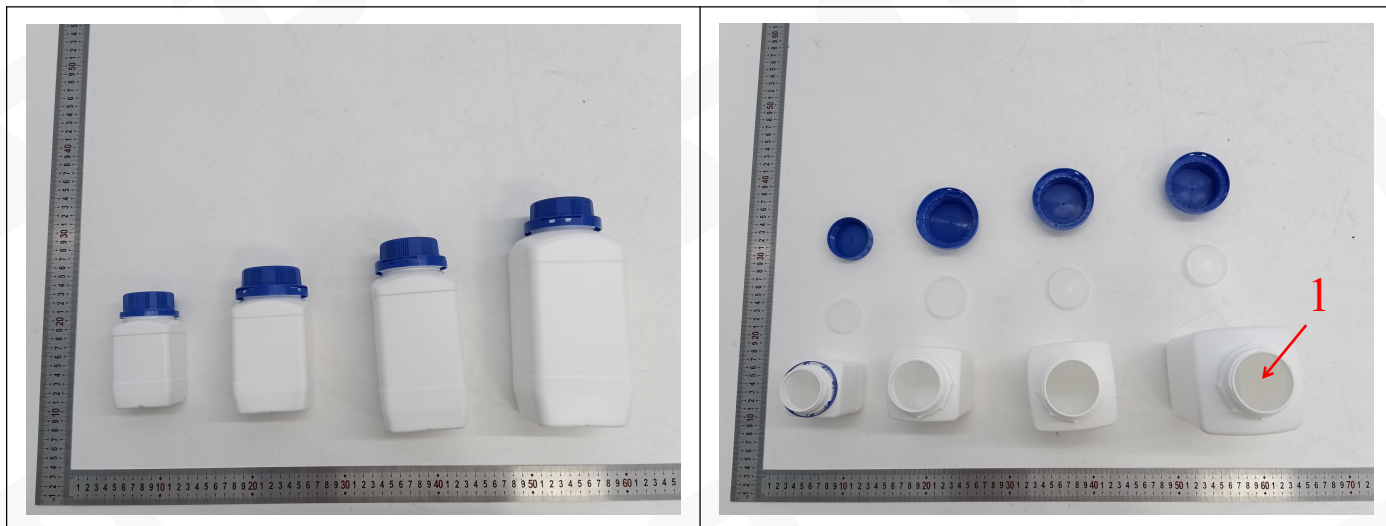
Method: Refer to in house method, was analyzed by GC-MS

Test Item(s)	Unit	Result	RL	Limit
Dibutyl Phthalate(DBP)	mg/kg	N.D.	30	500
Benzylbutyl Phthalate (BBP)	mg/kg	N.D.	30	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	N.D.	30	1000
Diisononyl Phthalate(DINP)	mg/kg	N.D.	100	1000
Diisodecyl Phthalate (DIDP)	mg/kg	N.D.	100	1000

Note:

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Sample pictures:



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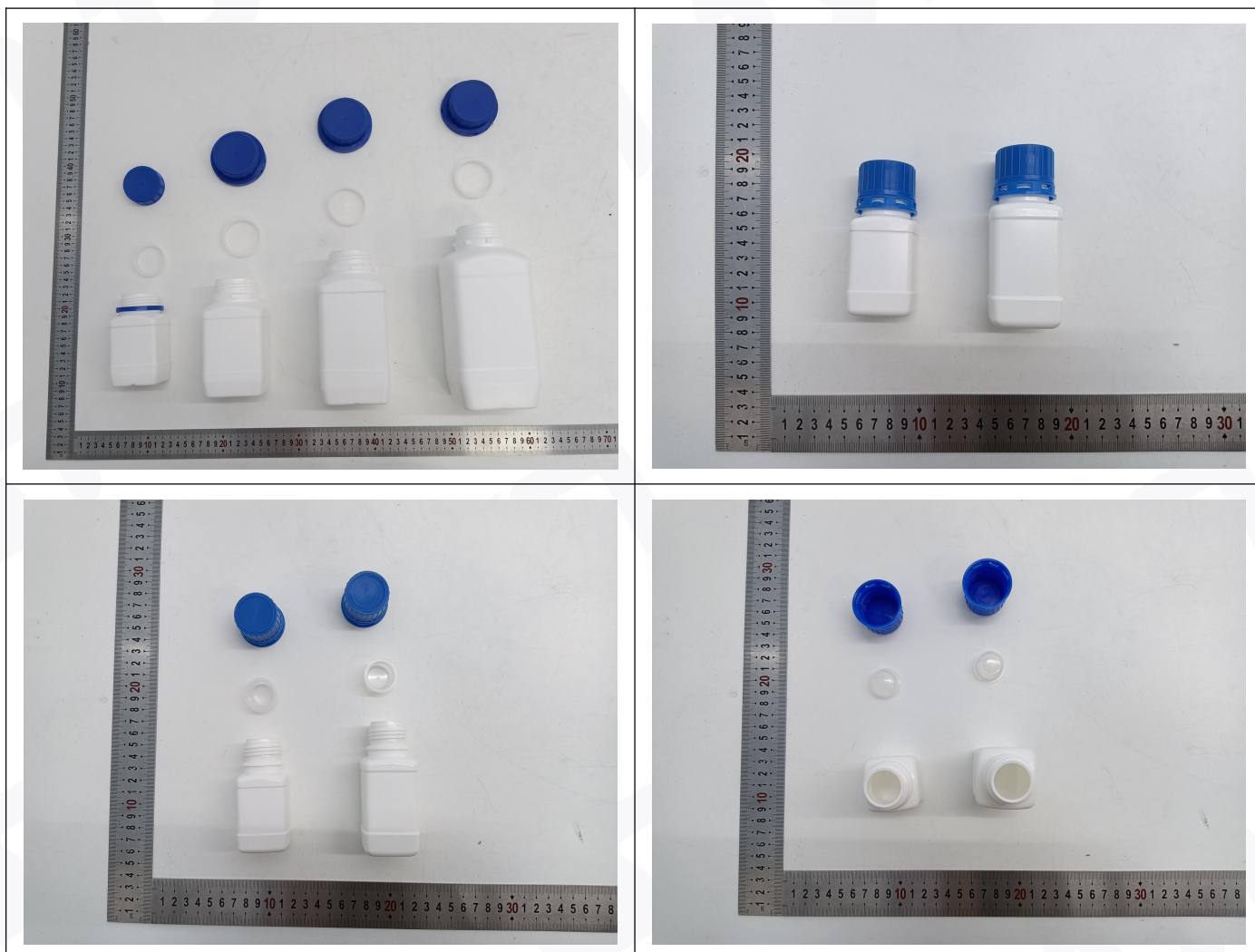


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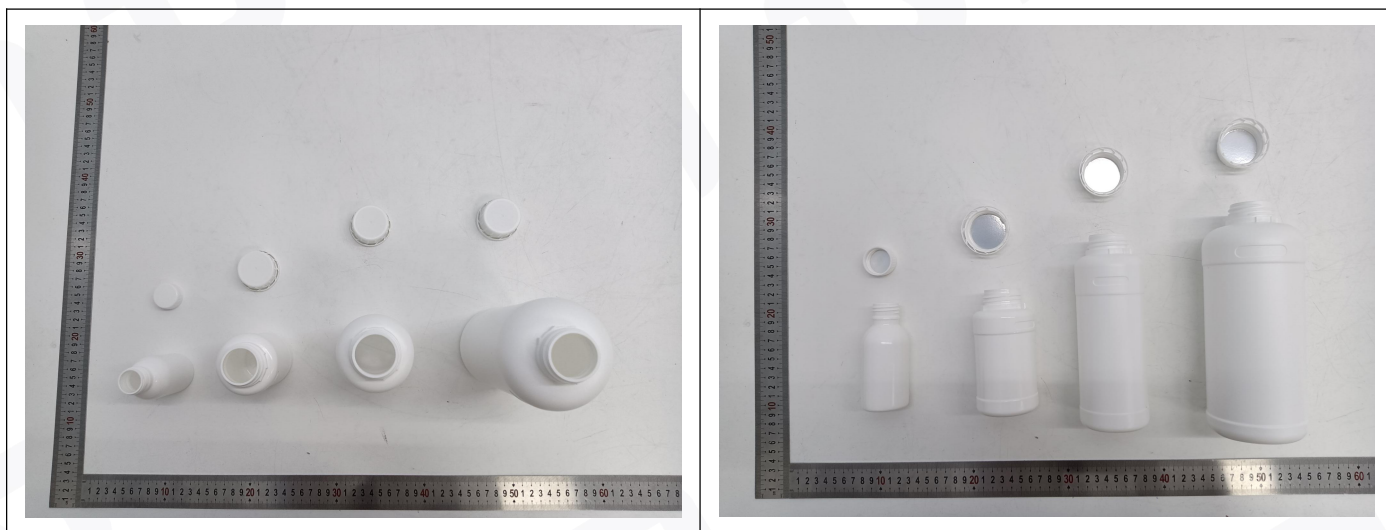


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