



Report No.: RTS250708H0829FDBG

Date : 2025-07-14

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TEST REPORT

Test information

Applicant	:	
Address	:	
Sample Description	:	Vacuum insulated cup
Intended food contact conditions	:	Hot-fill,at room temperature, within 24 hours or less than 24 hours Repeated use Not contact with acidic foods
Country of origin	:	China
The above information were provided by the client.		
Receiving Date	:	July 08, 2025
Test period	:	July 08, 2025~July 12, 2025
Amended date	:	July 14, 2025
Test Requested	:	Tests requested in accordance to client requirement

TEST ITEMS	CONCLUSION
Item/ component description(s): A1: 304 stainless steel inner surface	--
Sensorial examination odour and taste test – Regulation (EC) No 1935/2004 of European Parliament and of the Council of 24 October 2004	PASS
Extractable heavy metal - Council of Europe Resolution CM/Res(2020)9 & Metals and alloys used in food contact materials and articles A technical guide for manufacturers and regulators 2nd Edition 2024	PASS

This report replaces the original report: RTS250708H0829FD, The original report was voided.

Signed for and on behalf of
Zhejiang RTS TEST CO.,LTD.

BINBIN ZOU

Approved signatory



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Sample image:



Images presented by the customer:



**Test result:****A. Sensorial examination odour and taste test – Regulation (EC) No 1935/2004 of European Parliament and of the Council of 24 October 2004 :****Test method:** With reference to DIN 10955:2024-01**Test media:** Distilled water.**Test condition :** Fill with food simulant at 100°C & keep the container closed for 24 h at RT

Test Number	Item/ component description(s)	Material (claimed by the client)
A1	304 stainless steel inner surface	304 Stainless steel

Test item(s)	Test result A1	Limit
Sensorial examination odour(point scale)	0.5	2.5
Sensorial examination taste(point scale)	0.5	2.5

Scale evaluation:

0:No perceptible deviation

1:Just perceptible deviation, still difficult to define (Stimulus threshold)

2:Slight deviation, definable (Detection threshold)

3:Significant deviation

4:Strong deviation (This intensity does not necessarily indicate the perceptible maximum)



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B. Extractable heavy metal – Council of Europe Resolution CM/Res(2020)9 & Metals and alloys used in food contact materials and articles A technical guide for manufacturers and regulators 2nd Edition 2024 :

Test Method: Sample preparation with reference to BS EN 13130-1:2004, Analysis was performed by ICP-MS and ICP-OES.

Stimulant used: Artificial tap water

Test condition : Fill with food simulant at 100℃ & keep the container closed for 24 h at RT

Test Number	Item/ component description(s)	Material (claimed by the client)
A1	304 stainless steel inner surface	304 Stainless steel

Parameter	Unit	MDL	Test Results 1 st +2 nd Migration A1	Maximum permissible limit
Test area	dm ²	--	3.97	--
Test volume	mL	--	495	--
Vanadium (V)	mg/kg	0.0005	N.D.	0.07
Arsenic (As)	mg/kg	0.0005	N.D.	0.014
Beryllium (Be)	mg/kg	0.0005	N.D.	0.07
Cadmium (Cd)	mg/kg	0.0005	N.D.	0.035
Lead (Pb)	mg/kg	0.0005	N.D.	0.070
Antimony (Sb)	mg/kg	0.01	N.D.	0.28
Chromium (III) (Cr)	mg/kg	0.01	N.D.	7
Cobalt (Co)	mg/kg	0.01	N.D.	0.14
Molybdenum (Mo)	mg/kg	0.01	N.D.	0.84
Nickel (Ni)	mg/kg	0.01	N.D.	0.98
Silver (Ag)	mg/kg	0.01	N.D.	0.56
Lithium (Li)	mg/kg	0.01	N.D.	0.336
Aluminium (Al)	mg/kg	0.1	N.D.	35
Copper (Cu)	mg/kg	0.1	N.D.	28
Zinc (Zn)	mg/kg	0.1	N.D.	35
Manganese (Mn)	mg/kg	0.1	N.D.	3.85
Barium (Ba)	mg/kg	0.1	N.D.	8.4
Zirconium (Zr)	mg/kg	0.1	N.D.	14
Mercury (Hg)	mg/kg	0.001	N.D.	0.021
Thallium (Tl)	mg/kg	0.0001	N.D.	0.007
Iron (Fe)	mg/kg	20	N.D.	280
Tin (Sn)	mg/kg	20	N.D.	700
Titanium (Ti)	mg/kg	20	N.D.	--
Magnesium (Mg)	mg/kg	20	N.D.	--
Conclusion:			PASS	-

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Parameter	Unit	MDL	Test Results 3 rd Migration A1	Maximum permissible limit
Test area	dm ²	--	3.97	--
Test volume	mL	--	495	--
Vanadium (V)	mg/kg	0.0005	N.D.	0.01
Arsenic (As)	mg/kg	0.0005	N.D.	0.002
Beryllium (Be)	mg/kg	0.0005	N.D.	0.01
Cadmium (Cd)	mg/kg	0.0005	N.D.	0.005
Lead (Pb)	mg/kg	0.0005	N.D.	0.010
Antimony (Sb)	mg/kg	0.01	N.D.	0.04
Chromium (III) (Cr)	mg/kg	0.01	N.D.	1
Cobalt (Co)	mg/kg	0.01	N.D.	0.02
Molybdenum (Mo)	mg/kg	0.01	N.D.	0.12
Nickel (Ni)	mg/kg	0.01	N.D.	0.14
Silver (Ag)	mg/kg	0.01	N.D.	0.08
Lithium (Li)	mg/kg	0.01	N.D.	0.048
Aluminium (Al)	mg/kg	0.1	N.D.	5
Copper (Cu)	mg/kg	0.1	N.D.	4
Zinc (Zn)	mg/kg	0.1	N.D.	5
Manganese (Mn)	mg/kg	0.1	N.D.	0.55
Barium (Ba)	mg/kg	0.1	N.D.	1.2
Zirconium (Zr)	mg/kg	0.1	N.D.	2
Mercury (Hg)	mg/kg	0.001	N.D.	0.003
Thallium (Tl)	mg/kg	0.0001	N.D.	0.001
Iron (Fe)	mg/kg	20	N.D.	40
Tin (Sn)	mg/kg	20	N.D.	100
Titanium (Ti)	mg/kg	20	N.D.	--
Magnesium (Mg)	mg/kg	20	N.D.	--
Conclusion:			PASS	-

Note:

- 1) 1mg/kg = 0.0001% = mass percent.
- 2) N.D. = Not detected, less than MDL(method detect limit).
- 3) Test condition & simulant were specified by client.
- 4) Requirement for repeat use article: According to Metals and alloys used in food contact materials and articles A technical guide for manufacturers and regulators 2nd Edition 2024, 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.
- 5) The ratio of actual surface area to volume ratio was 8.0 dm² per 1 kg of foodstuff in contact with.

----- End of Report -----**Zhejiang RTS Test Co., LTD.**

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