

**Tests According to Standards for Apparatus and Container-Packages Made of Metal Can
(Notification No. 370, issued by the Ministry of Health and Welfare of Japan, dated in 1959)**

Japan Food Research Laboratories

Tax excluded		
No.	Type of	Representative Price(JPY)
1	Metal Cans, Coated with synthetic resin.	57,500~
2	Metal Cans, Not coated with synthetic resin.	16,500~

PRICE LIST

Tax excluded

	Condition for use	Leaching condition			Unit Price (JPY)	Metal Cans, Coated with synthetic resin	Metal Cans, Not coated with synthetic resin ^{*1}
		Solution	Temp.	Time			
ElutionTest							
Arsenic, Cadmium and Lead							
pH exceeds 5	100°C <	Water	95°C	30 min	16,500	✓	✓
	100°C ≥	Water	60°C	30 min	16,500	✓	✓
pH 5 or less		0.5% CA	60°C	30 min	16,500	✓	✓
Phenol	100°C <	Water	95°C	30 min	5,000	✓	
	100°C ≥	Water	60°C	30 min	5,000	✓	
Formaldehyde	100°C <	Water	95°C	30 min	6,000	✓	
	100°C ≥	Water	60°C	30 min	6,000	✓	
Evaporation residue							
Fats, oils and fatty foods		Heptane	25°C	1 hour	7,000	✓ ^{*3}	
Alcoholic beverages		20% ethanol	60°C	30 min	4,000	✓	
pH exceeds 5	100°C <	Water	95°C	30 min	4,000	✓ ^{*3}	
	100°C ≥	Water	60°C	30 min	4,000	✓ ^{*3}	
pH 5 or less	100°C <	4% AA	60°C	30 min	4,000	✓	
	100°C ≥	4% AA	60°C	30 min	4,000	✓	
Epichlorohydrin		Pentane	25°C	1hr	11,000	✓ ^{*2}	
Vinyl chloride		Ethanol	5°C	24hr	15,000	✓	
Required amounts of test samples				Contact us for detail.			

*1 In case when a top lid, a bottom lid or a cylindrical body is coated with synthetic resin, all the parameters above are required to be tested.

*2 When the sample can be filled with solvent and whose volume is over 500ml and less than 1,000ml (500ml < Volume ≤ 1000ml), JPY2,000 is added as extra solvent charge.

0.5% Citric acid: 0.5% CA
4% acetic acid: 4% AA

* Method of elution

1	Samples which can be filled with solvent. (Volume ≤ 1000ml)	Leached by filling up the sample with solvents.
2	Samples which can be filled with solvent.(Volume > 1000ml)	Eluted by soaking one side of the sample in the solvent. (2ml/cm ²)
3	Samples which can not be filled with solvent.	

STANDARDS

Arsenic, Cadmium and Lead	Not exceed the absorbance of the standard solution Arsenic(as As ₂ O ₃) : 0.2 µg/ml or less Cadmium : 0.1 µg/ml or less Lead : 0.4 µg/ml or less
Phenol	Not exceed the absorbance of the standard solution (5 µg/ml or less)
Formaldehyde	Not darker in color than the contrast solution (about 4 µg/ml or less)
Evaporation residue	30 µg/ml or less ^{*3}
Epichlorohydrin	Not larger than the peak area of the standard solution (0.5µg/ml or less)
Vinyl chloride	Not larger than the peak area of the standard solution (0.05µg/ml or less)

*3 In case where the samples is a can that has been coated on the inside with a coating whose main raw material is natural oils or fats and the content of zinc oxide in the coating is greater than 3%:
•Evaporation residue (Solution: Heptane) : no more than 90 µg/ml

Additionally, in these cases, if the amount of evaporation residue is more than 30 µg/ml when using water as leaching solution:
•Chloroform solubles : no more than 30 µg/ml [Additional test for Chloroform solubles JPY3,000]