

IBIC GROUP LTD
 204 HASTINGS STREET
 NORTH
 HASTINGS
 4122
 NEW ZEALAND

Test Report No. BAN 275666/1
Issue Date: 14 February 2020

Attn: Quentin Currie

The following sample was submitted and identified by the client as:

Sample Name: Pro-Jug.

Sample Description: Clear plastic jug with black print on the exterior in a variety of different sizes.

Sample Reference: 5 Litre, 3 Litre, 2 Litre, 1 Litre, 500ml, 250ml.

Date of Receipt: 09 January 2020

Testing Period: Testing conducted between 06 Feb 2020 and 11 Feb 2020
(Please note this testing was subcontracted to another laboratory within the SGS group of companies)

Testing Requested: Please refer to the result summary.

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

Result Summary:

Test Requested	Conclusion
1. German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 31.	--
a) Sensorial Examination Odour and Taste Test	PASS
2. German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30, European Commission Regulation (EU) No 10/2011 and its amendments, and BfR recommendation.	
a) Plastic – Overall Migration	PASS
b) Plastic – Specific Migration of Heavy Metals	PASS
c) Plastic – Lead and Cadmium	PASS
d) Plastic – Polycyclic Aromatic Hydrocarbons (PAHs)	PASS

Signed for and on behalf of
 SGS United Kingdom Ltd.



Tracey McKenna BSc (Hons)
 Chemistry Manager

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Test Results :

1. German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 31.

a) Sensory Examination – Odour and Taste Test

Method: With reference to DIN10955:2004-06

Test Condition: 40°C for 0.5 hours

Test media: Deionised Water

No. of panellist: 6

Test Item	Result	Permissible Limit
	1	
Sensorial examination odour (Intensity scale)	0	2.5
Sensorial examination taste (Intensity scale)	0	2.5
Comment	PASS	--

Sample Description :

1. Whole Sample (Small Style)

Note : Intensity scale (rounded at 0.5) :

- 0 – no perceptible difference
- 1 – just perceptible difference
- 2 – slight difference
- 3 – marked difference
- 4 – strong difference

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2. German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30, European Commission Regulation (EU) No 10/2011 and its amendments, and BfR recommendation.

a) Plastic – Overall Migration

Method : With reference to EN 1186-1:2002 for selection of conditions and test methods (3rd migration);
 EN 1186-9:2002 aqueous food simulants by article filling method;
 EN 1186-2/13:2002 olive oil by total immersion method;

Simulant Used	Test Condition	Result (mg/dm ²)	Reporting Limit (mg/dm ²)	Permissible Limit (mg/dm ²)
		1		
3% Acetic Acid (W/V) Aqueous Solution	2 hours at 70°C	ND	3.0	10
10% Ethanol (V/V) Aqueous Solution	2 hours at 70°C	ND	3.0	10
Rectified Olive Oil	2 hours at 70°C	ND	3.0	10
Comment	--	PASS	--	--

Sample Description :

1. Semi-Transparent Plastic (Measuring Jug) (Small Style)

- Note :
1. Mg/dm² = milligram per square decimetre
 2. °C = degree Celsius
 3. ND = Not Detected

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b) Plastic – Specific Migration of Heavy Metals

Method : Sample preparation in 3% acetic acid (w/v) in aqueous solution at 40°C for 0.5 hours with reference to EN 13130-1:2004; followed by analysis using Inductively Coupled Argon Plasma Spectrometry (ICP) and Inductively coupled plasma-mass spectrometry (ICP-MS). (3rd migration).

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
	1		
Specific Migration of Barium	ND	0.25	1
Specific Migration of Cobalt	ND	0.03	0.05
Specific Migration of Copper	ND	0.25	5
Specific Migration of Iron	ND	0.25	48
Specific Migration of Lithium	ND	0.5	0.6
Specific Migration of Manganese	ND	0.25	0.6
Specific Migration of Nickel	ND	0.01	0.02
Specific Migration of Zinc	ND	0.5	5
Specific Migration of Aluminium	ND	0.1	1
Comment	PASS	--	--

Sample Description :

1. Semi-Transparent Plastic (Measuring Jug) (Small Style)

Note : 1. Mg/kg = milligram per kilogram of foodstuff in contact with
 2. °C = degree Celsius
 3. ND = Not Detected

c) Plastic – Lead and Cadmium

Method : i) Lead Content : Acid digestion followed by analysis with Atomic Absorption Spectrometry.
 ii) Cadmium content : With reference to EN 1122:2001, Method B

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Reference Limit (mg/kg)
	1		
Lead Content ⁱ	ND	2	Absent
Cadmium Content ⁱⁱ	ND	2	Absent
Comment – Lead and Cadmium	PASS	--	--

Sample Description :

1. Semi-Transparent Plastic (Measuring Jug) (Small Style)

Note : 1. Mg/kg = milligram per kilogram
 2. ND = Note Detected

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d) Plastic – Polycyclic Aromatic Hydrocarbons (PAHs)

Method : With reference to AfPS GS 2014:01 PAK.. Analysis was conducted by Gas Chromatography-Mass Spectrometry.

Test Item	CAS Number	Result (mg/kg)	Reporting Limit (mg/kg)	Reference Limit (mg/kg)
		1		
1. Naphthalene	91-20-3	ND	0.1	1
2. Acenaphthylene	208-96-8	ND	0.1	1
3. Acenaphthene	83-32-9	ND	0.1	
4. Fluorene	86-73-7	ND	0.1	
5. Phenanthrene	85-01-8	ND	0.1	
6. Anthracene	120-12-7	ND	0.1	
7. Fluoranthene	206-44-0	ND	0.1	
8. Pyrene	129-00-0	ND	0.1	
9. Benz[a]anthracene	56-55-3	ND	0.1	
10. Chrysene	218-01-9	ND	0.1	0.2
11. Benzo[b]fluoranthene	205-99-2	ND	0.1	0.2
12. Benzo[k]fluoranthene	207-08-9	ND	0.1	0.2
13. Benzo[j]fluoranthene	205-82-3	ND	0.1	0.2
14. Benzo[e]pyrene	192-97-2	ND	0.1	0.2
15. Benzo[a]pyrene	50-32-8	ND	0.1	0.2
16. Indeno[1,2,3-cd]pyrene	193-39-5	ND	0.1	0.2
17. Dibenz[a,h]anthracene	53-70-3	ND	0.1	0.2
18. Benzo[g,h,i]perylene	191-24-2	ND	0.1	0.2
Sum of PAHs	--	ND	--	1
Comment	--	PASS	--	--

Remark : Reference limits are quoted from German commission for Product Safety (AfPS) – AfPS GS 2014:01 PAK.

Sample Description :

1. Semi-Transparent Plastic (Measuring Jug) (Small Style)

Note : 1. Mg/kg = milligram per kilogram
 2. ND = Not Detected

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End of Report

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