

Test Report No.: 1905-1314-01

Issued Date: 29 May 2019

Page No.: 1 of 6

Applicant: Sunnex Products Limited
20/F, Sunbeam Plaza, 1155 Canton Road, Kowloon, Hong Kong

Sample Description	:	One(1) style of submitted sample in six(6) pieces said to be:
Item Name	:	Polypropylene Measuring Jug, Clear 1.0Ltr
Item No.	:	86121
Country of Origin	:	China
Received Date	:	21 May 2019
Test Period	:	21 May 2019 – 29 May 2019



The test report is fully governed by the Company's terms and condition which is printed at the back of the report. Any copying or replication of this report is only allowed with the written consent of ALS Consumer Products Technical Service (Dongguan) Ltd. The above technical findings are collected against the submitted samples only which does not represent the general quality or characteristics of the shipment. The standard applied and reporting procedures are based upon the client's instruction and information provided.

Test Report No.: 1905-1314-01

Issued Date: 29 May 2019

Page No.: 2 of 6

TESTING SUMMARY

<u>TESTS REQUESTED BY THE APPLICANT</u>		<u>RESULT</u>
European Commission Regulation (EU) No 10/2011 with its latest amendment and hence Article 3 of European Regulation (EC) No 1935/2004		
a	Overall Migration	<u>Pass</u>
b	Specific Migration of Heavy metal (Li, Al, Mn, Fe, Co, Ni, Cu, Zn, Ba)	<u>Pass</u>
c	Specific Migration of Phthalates	<u>Pass</u>
d	Phthalates content	<u>Pass</u>

----- FOR DETAILS, PLEASE REFER TO THE ATTACHED PAGE(S) -----

SIGNED FOR AND ON BEHALF OF:

ALS CONSUMER PRODUCTS TECHNICAL SERVICE (DONGGUAN) LTD.



Colin Chen

Manager – Chemical Laboratory

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Test Report No.: 1905-1314-01

Issued Date: 29 May 2019

Page No.: 3 of 6

RESULTS:

I. European Commission Regulation (EU) No 10/2011 with its latest amendment and hence Article 3 of European Regulation (EC) No 1935/2004

a) Overall Migration

Test Method: With reference to EN 1186-1: 2002; EN 1186-8: 2002; EN 1186-9: 2002

Test Condition: (a). Acetic acid 3% (w/v), OM3 (70°C for 2 hours)

(b). Ethanol 10% (v/v), OM3 (70°C for 2 hours)

(c). Vegetable oil, OM3 - 70°C for 2 hours

Simulant/Conditions	Unit	RL	Sample Result	Maximum permissible limit
			1	
(a)	mg/dm ²	3	ND	10
(b)	mg/dm ²	3	ND	10
(c)	mg/dm ²	3	ND	10

Note: 1. RL = Report Limit

2. ND = Not Detected(less than RL)

3. mg/dm² = milligram per decimeter square of foodstuff in contact with

4. °C = Degree Celsius

5. Sample 1 = Transparent PP body.

Remark: 1. The test is obtained by considering the articles intended for repeated use as per EN1186-1: 2002 Clause 9.8.

2. Food simulant assignment for testing overall migration is referenced to (EU) No 10/2011 Annex III, Table 3.

3. Standardized testing conditions are referenced to (EU) No 10/2011 Annex IV, Chapter 3, Table 3.

4. Permissible Limit is according to Chapter II, Article 12 of (EU) No 10/2011 with its latest amendment.

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Test Report No.: 1905-1314-01

Issued Date: 29 May 2019

Page No.: 4 of 6

RESULTS:

I. European Commission Regulation (EU) No 10/2011 with its latest amendment and hence Article3 of European Regulation (EC) No 1935/2004

b) Specific migration of Heavy metal (Li, Al, Mn, Fe, Co, Ni, Cu, Zn, Ba)

Test Method: Sample preparation with reference to Commission Regulation (EU) No 10/2011 Annex III and Annex V for selection of condition and EN13130-1: 2004 for selection of test method; followed by analysis using Inductively Coupled Plasma Mass Spectrometry.

Test condition: Acetic acid 3% (w/v), 70°C for 2 hours

<u>Test Item(s)</u>	<u>Unit</u>	<u>RL</u>	<u>Sample Result</u>	<u>Maximum Permissible Limit</u>
			1	
Lithium (Li)	mg/kg	0.01	ND	0.6
Aluminum (Al)	mg/kg	0.01	ND	1
Manganese (Mn)	mg/kg	0.01	ND	0.6
Iron (Fe)	mg/kg	0.1	ND	48
Cobalt (Co)	mg/kg	0.001	ND	0.05
Nickel (Ni)	mg/kg	0.001	0.001	0.02
Copper (Cu)	mg/kg	0.02	ND	5
Zinc (Zn)	mg/kg	0.01	ND	5
Barium (Ba)	mg/kg	0.01	ND	1

- Note:
1. RL = Report Limit
 2. ND = Not Detected(less than RL)
 3. mg/kg = milligram per kilogram of foodstuff in contact with
 4. °C = Degree Celsius
 5. Sample 1 = Transparent PP body.

Remark: Permissible Limit is according to (EU) No 10/2011 and its latest amendment, Annex II.

Test Report No.: 1905-1314-01

Issued Date: 29 May 2019

Page No.: 5 of 6

RESULTS:

I. European Commission Regulation (EU) No 10/2011 with its latest amendment and hence Article3 of European Regulation (EC) No 1935/2004

c) Specific migration of Phthalates

Test Method: Sample preparation with reference to Commission Regulation (EU) No 10/2011 Annex III and Annex V for selection of condition and EN13130-1:2004 for selection of test method; followed by analysis using Gas Chromatography – Mass Spectrometry.

Test condition: Ethanol 10% (v/v), 70°C for 2 hours

<u>Test Item</u>	<u>Unit</u>	<u>RL</u>	<u>Sample Result</u>	<u>Maximum Permissible Limit</u>
			<u>1</u>	
Dibutyl phthalate (DBP)	mg/kg	0.05	ND	0.3
Benzylbutyl phthalate (BBP)	mg/kg	0.25	ND	30
Bis-(2-ethylhexyl) phthalate (DEHP)	mg/kg	0.25	ND	1.5
Diisononyl phthalate + Diisodecyl phthalate (DINP + DIDP)	mg/kg	2.0	ND	9
Diallyl phthalate (DAP)	mg/kg	0.01	ND	ND

- Note:
1. RL = Report Limit
 2. ND = Not Detected(less than RL)
 3. mg/kg = milligram per kilogram of foodstuff in contact with
 4. °C = Degree Celsius
 5. Sample 1 = Transparent PP body.

Remark: Permissible Limit is according to (EU) No 10/2011 and its latest amendment, Annex I, Table 1:
FCM substance No. 157, 159, 283, 728, 729, 316.

Test Report No.: 1905-1314-01

Issued Date: 29 May 2019

Page No.: 6 of 6

RESULTS:

I. European Commission Regulation (EU) No 10/2011 with its latest amendment and hence Article 3 of European Regulation (EC) No 1935/2004

d) Phthalates content

Test Method: With reference to in house method (ALS SOP No.: SOP-CH-1004), analysis was performed by GC-MS.

<u>Test item</u>	<u>Unit</u>	<u>RL</u>	<u>Sample Result</u>	<u>Maximum permissible limit</u>
			<u>1</u>	
Dibutyl phthalate (DBP)	%	0.01	ND	0.05
Benzyl butyl phthalate (BBP)	%	0.01	ND	0.1
Bis(2-ethylhexyl) phthalate (DEHP)	%	0.01	ND	0.1
Di-isononyl phthalate (DIDP)	%	0.02	ND	0.1
Di-isononyl phthalate (DINP)	%	0.02	ND	0.1

- Note:
1. RL = Report Limit
 2. ND = Not Detected(less than RL)
 3. % = Percentage by weight
 4. Sample 1 = Transparent PP body.

Remark: Permissible Limit is according to (EU) No 10/2011 and its latest amendment, Annex I, Table 1:
FCM substance No. 157, 159, 283, 728, 729.

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End of Report

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TERMS AND CONDITIONS

ALS Consumer Products Technical Service (Dongguan) Ltd. (A QIMA Company) (the "Company"), will conduct, at the request of the Submitter ("Client"), the required tests specified on the reverse side of this Test Request Form in accordance with, and subject to, the following terms and conditions:

1. All orders for tests are subject to acceptance by the Company, and no order will constitute a binding commitment of the Company unless and until such order is accepted by it, as evidenced by the issuance of a written report ("Report") by the Company. The Report is issued solely by the Company, is intended for the exclusive use of Client and shall not be published, used for advertising purposes, copied or replicated for distribution to any other person or entity or otherwise publicly disclosed without the prior written consent of the Company. The Company shall not be liable for any loss or damage whatsoever resulting from the failure of the Company to provide its services within any time period for completion estimated by the Company. If Client anticipates using the Test Report in any legal proceeding, arbitration, dispute resolution forum or other proceeding, it shall so notify the Company prior to submitting the sample for testing.
2. The names, service marks, trademarks and copyrights of the Company and its affiliates, including the names ALS CONSUMER PRODUCTS TECHNICAL SERVICE (DONGGUAN) LTD (A QIMA Company)" "QIMA"(collectively, the "Marks") are and shall remain the sole property of the Company or its affiliates and shall not be used by Client except solely to the extent that Client obtains the prior written approval of the Company and then only in the manner prescribed by the Company. Client shall not contest the validity of the Marks or take any action that might impair the value or goodwill associated with the Marks or the image or reputation of the Company or its affiliates.
3. The Report will set forth the findings of the Company solely with respect to the samples identified therein and, unless specifically and expressly indicated in the Report, the results set forth in such Report will not be indicative or representative of the quality or characteristics of the lot from which a sample will be taken. The Report will reflect the findings of the Company at the time of testing only, and the Company shall have no obligation to update the Report after its issuance. The Report will set forth the technical results performed by the Company based upon the written information provided to the Company as set forth in, or attached to, this Application Form. The Report will represent the entire understanding of the parties hereto with respect to the subject matter of the Report and no modification, variance, extrapolation or conclusion with respect thereto shall be permitted without the prior written consent of the Company.
4. The Company may, in its sole discretion, destroy samples which have been furnished to the Company for testing and which have not been destroyed in the course of testing. The Company may delegate the performance of all or a portion of the services contemplated hereunder to an affiliate, agent or subcontractor of the Company, and Client consents to such delegation.
5. Unless a shorter period is provided for on the reverse side of this Application Form, payment in full shall be due 30 days after the date of invoice. Client shall pay interest on any overdue amount from the due date until paid at an interest rate of 3% per month or, if less, the maximum rate permitted by law. The Company reserves the right, at any time and from time to time, to revoke any credit extended to Client. Client shall reimburse the Company for any costs it incurs in collecting past due amounts, including court costs and fees and expenses of attorneys and collection agencies. The Report may not be used or relied upon by Client if and for so long as Client fails to pay when due any invoice issued by the Company or any affiliate of it to Client or any affiliate or subsidiary of Client together with interest and penalties, if any, accrued thereon.
6. The Company may, from time to time, permit Client to access this Application Form, the Report and other communications by means of e-mail transmissions with the Company. Client acknowledges that any such transmission will not be encrypted and, hence, will not be confidential, that such transmissions may be read and intercepted by third parties and that the electronic version of a Application Form, Report or other communication could be modified inadvertently. The Company disclaims any and all responsibility or liability arising out of or in connection with e-mail transmissions of such information.
7. The Company represents and warrants solely to Client that the Report will be free of any material error or omission caused by the negligence of the Company. If Client desires to assert a claim for breach of the foregoing warranty, it must submit a claim to the Company within 60 days after the date of issuance of the Report to Client in a writing that sets forth with particularity the basis for such claim. If the Company determines that the claim is timely and that a breach of the foregoing warranty has occurred, then the Company, at its option, may either (a) re-perform the deficient test, without charge to Client, or (b) refund to Client, without interest, the fee paid to the Company for such Report. Client waives any and all claims for breach of the foregoing warranty, including, without limitation, claims that the Report is inaccurate, incomplete or misleading or that additional or different testing is required, unless and then only to the extent that Client submits a written claim to the Company within such 60-day period.
8. The Company shall, to the extent of the limitation of liability set forth in Section 9, indemnify Client against third party claims asserting a loss arising exclusively from the negligence of the Company, but only if Client (a) notifies the Company of the assertion of such claim immediately upon its being notified and (b) provides to the Company the option to assume the defense of such claim or participate in such defense.
9. EXCEPT TO THE EXTENT OF THE LIMITED WARRANTY SET FORTH IN SECTION 7 OR AS MAY OTHERWISE BE AGREED TO IN WRITING BY THE COMPANY, OR TO THE EXTENT LIABILITY CANNOT BE LIMITED BY LAW, AND NOTWITHSTANDING ANY PROVISION TO THE CONTRARY CONTAINED HEREIN OR IN ANY TEST REPORT, NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE, IS MADE. EXCEPT TO THE EXTENT LIABILITY CANNOT BE LIMITED BY LAW, IN NO EVENT WHATSOEVER SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL, SPECIAL OR INCIDENTAL DAMAGES IN CONNECTION WITH OR ARISING OUT OF THE SERVICES PROVIDED BY THE COMPANY HEREUNDER, INCLUDING WITHOUT LIMITATION LOSS OF OR DAMAGE TO PROPERTY, LOSS OF INCOME, PROFIT OR USE, OR CLAIMS OR DEMANDS MADE AGAINST CLIENT OR ANY OTHER PERSON BY ANY THIRD PARTY IN CONNECTION WITH OR ARISING OUT OF THE SERVICES PROVIDED BY THE COMPANY HEREUNDER. NOTWITHSTANDING ANY PROVISION TO THE CONTRARY CONTAINED HEREIN, AND EXCEPT TO THE EXTENT LIABILITY CANNOT BE LIMITED BY LAW, UNDER NO CIRCUMSTANCES WHATSOEVER SHALL THE LIABILITY OF THE COMPANY IN RESPECT OF ANY CLAIM FOR LOSS, DAMAGE OR EXPENSE, OF WHATEVER NATURE OR MAGNITUDE, AND HOWEVER ARISING, EXCEED AN AMOUNT EQUAL TO THE AMOUNT OF THE FEES PAID TO THE COMPANY FOR THE SPECIFIC SERVICES WHICH GAVE RISE TO SUCH CLAIM.
10. The Company shall not be liable for any loss or damage resulting from any delay or failure in performance of its obligations hereunder resulting directly or indirectly from any cause that is beyond the control of the Company, including, but not limited to, fire, flood, tornado, hurricane or other acts of God, war, casualty, accident, embargo, governmental actions, orders of courts or tribunals, non-performance of third parties, strike, lock-out, or other difficulties with employees, inability timely to obtain labor, material, equipment or services through the Company's usual sources or delays of carriers. If any such event occurs, the Company may immediately cancel or suspend its performance hereunder without incurring any liability whatsoever to Client.