No.SET2014-05187

TEST REPORT

Client：	YuHuan SanTong Plastic Co.,Ltd
Client address：	No.2 Shahe Industrial Zone,Chumen Town,Yuhuan County,Taizhou City,Zhejiang
Name of sample:	e-liquid bottle
Material:	PP、PET、PE
Model:	10ml(addition model 5ml,15ml,20ml,25ml,30ml,50ml,100ml）
Manufacturer:	YuHuan SanTong Plastic Co.,Ltd
Manufacturer address:	No.2 Shahe Industrial Zone,Chumen Town,Yuhuan County,Taizhou City,Zhejiang
Test sort	Commission Test
Sample received:	Jun. 05, 2014
Testing date:	Jun. 05, 2014~ Jun. 16, 2014
Test Requested:	Selected test(s) as requested by client.
Test Method:	Please refer to next page(s).
Note	----

Result Summary:

It is requested by applicant, only the selected material(s) in the submitted sample was (were) tested, the detail of tested material(s) is (are) listed in specimen description in the result page(s).

Test Requested	Conclusion
FDA 21 CFR 177.1520	
FDA 21 CFR 177.1520 - Density at 23℃	Pass
FDA 21 CFR 177.1520 - Extractable fraction in n-hexane	Pass
FDA 21 CFR 177.1520 - Soluble fraction in xylene	Pass
FDA 21 CFR 177.1520 - Melting point	Pass
FDA 21 CFR 177.1630	
-Chloroform-soluble extractives (Total extractable fraction in DI water at 120℉ for 24 hours) -Chloroform-soluble extractives (Total extractable fraction in 8% ethanol at 120℉ for 24 hours) -Chloroform-soluble extractives (Total extractable fraction in n-heptane at 120℉ for 24 hours)	Pass

Tested by: Xu Peng Checked by: Approved By:

Date： Jun. 16, 2014 Date： Jun. 16, 2014 Date： Jun. 16, 2014

Test result for Sample ：

FDA 21 CFR 177.1520- Melting point

Test Requested: As specified for client, to determine Melting point for compliance with the Food and Drug Administration Regulations for polypropylene used in articles that contact with food.

Test Method: With reference to FDA 21 CFR 177.1520.

SAMPLE No.	Melting point,℃	Limit,℃	Comment
1	169.1	160-180	Pass

FDA 21 CFR 177.1520- Density at 23℃

Test Requested: As specified for client, to determine Density at 23℃ for compliance with the Food and Drug Administration Regulations for polypropylene and polyethylene used in articles that contact food.

Test Method: With reference to FDA 21 CFR 177.1520.

SAMPLE No.	**Density** at 23℃, g/cm^3	Limit, g/cm^3	Comment
1	0.894	0.880-0.913	Pass
2	0.911	0.85-1.00	Pass

FDA 21 CFR 177.1520- Extractable fraction in n-hexane and soluble fraction in xylene

Test Requested: As specified for client, to determine Extractable fraction in n-hexane and soluble fraction in xylene for compliance with the Food and Drug Administration Regulations for polypropylene and polyethylene used in contact with food.

Test Method: With reference to FDA 21 CFR 177.1520.

Simulant Used	Max. Permissible limit	SAMPLE No. 1	Comment
Extractable fraction in hexane at reflux temperature, w/w%	6.4	<1.0	Pass
Soluble fraction in xylene at 25℃,w/w%	9.8	<1.0	Pass

Simulant Used	Max. Permissible limit	SAMPLE No. 2	Comment
Extractable fraction in hexane at 50℃, w/w%	5.5	<1.0	Pass
Soluble fraction in xylene at 25℃,w/w%	11.3	<1.0	Pass

Note: w/w% = percentage of weight by weight

FDA 21 CFR 177.1630-Chloroform-soluble extractives

Test Requested: As specified for client, to determine Chloroform-soluble extractives for compliance with the Food and Drug Administration Regulations for Polyethylene phthalate polymers used in contact with food.

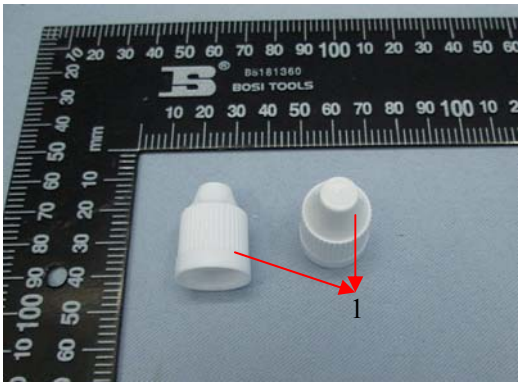
Test Method: With reference to FDA 21 CFR 177.1630☆.

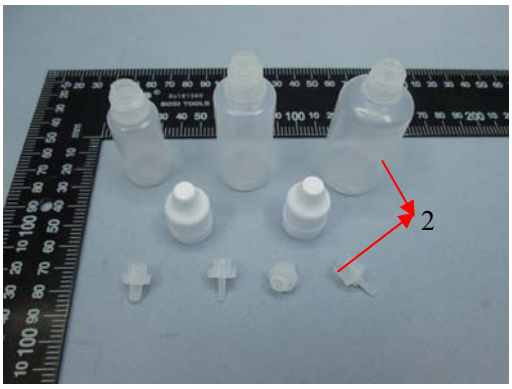
Items	Unit	Limit	Result	Comment
			3	
-Chloroform-soluble extractives (Total extractable fraction in DI water at 120℉ for 24 hours)	mg/in^2	0.5	<0.1	Pass
-Chloroform-soluble extractives (Total extractable fraction in 8% ethanol at 120℉ for 24 hours)	mg/in^2	0.5	<0.1	Pass
-Chloroform-soluble extractives (Total extractable fraction in n-heptane at 120℉ for 24 hours)	mg/in^2	0.5	<0.1	Pass

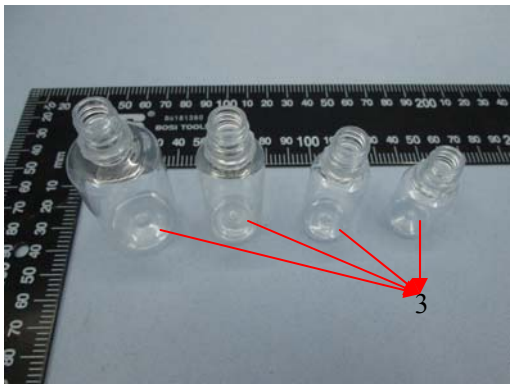
Tested components:

SAMPLE No.	COMPONENTS	COLOR AND MATERIAL	
1	Bottle cap	PP/white	
2	Bottle body, Bottle mouth	PE/ semitransparent white, PE/ semitransparent white	mixed
3	Bottle body	PET/transparency	

Sample photo:







List of apparatus:

No.	Name	Model	Calibration Valid Date	USE(√)
1	ICP-OES	VISTA-MPX	2014/10/20	
2	GC-MS	6890N/5975	2014/10/20	
3	UV-vis	UV-1100	2014/10/20	
4	Thermostat water bath	SHZ-B	2014/10/14	√
5	Analytical balance	BS224S	2014/10/14	√

****** END OF REPORT ******

STATEMENT

1. This test laboratory is accredited by CNAS, Accreditation Certificate No.L1659.
2. The test report is invalid without stamp of laboratory.
3. The test report is invalid without signature of person(s) testing and authorizing.
4. The test report is invalid if erased and corrected.
5. Test results of the report is valid to the test samples if sampling by client.
6. "☆"item cannot be Accredited by CNAS.
7. The test report shall not be reproduced except in full, without written approval of the laboratory.
8. If there is any objection to report, the client should inform issuing laboratory within 15 days from the date of receiving test report.