

# TEST REPORT

**APPLICANT** : Xindao B.V.

**ADDRESS** : P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands

**SAMPLE DESCRIPTION** : Bamboo pen set

**ITEM NO.** : P610.41

**COUNTRY OF ORIGIN** : China

**COUNTRY OF DESTINATION** : Europe

**SAMPLE RECEIVED DATE** : 27-Nov-2018

**SAMPLE RESUBMISSION DATE** : 07-Dec-2018

**TURN AROUND TIME** : 27-Nov-2018 to 11-Dec-2018

The following test item(s) was/were performed on selected sample(s) and/or component(s) confirmed by applicant

TEST REQUESTED	TEST METHOD/REGULATION	RESULT
Nickel Release	REACH Annex XVII, Entry 27	Pass
SCCP Content	Regulation (EC) No 850/2004 (Persistent Organic Pollutants, POPs) and its amendment Regulation (EU) 2015/2030	Pass
Pentachlorophenol (PCP) Content	REACH Annex XVII, Entry 22	Pass
Total Arsenic Content	REACH Annex XVII, Entry 19	Pass
Phthalates Content (15P)	EPA 3550C:2007, EPA 8270D:2014	Pass

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\*\*\*\*\* FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) \*\*\*\*\*

Signed for and on behalf of  
Eurofins Product Testing Service (Shanghai) Co., Ltd



Leo Liu  
Assistant Chemical Lab Manager

*Results obtained refer only to samples, products or material received in Laboratory, as described in point related to sample description, and tested in conditions shown in present report. Eurofins Product Testing Service (Shanghai) Co., Ltd ensures that this job has been performed according to our Quality System and complying contract and legal conditions. If you happen to have any comments, please do it by sending email to [info.sh@eurofins.com](mailto:info.sh@eurofins.com) and referring to this report number. Reproduction of this document is only valid if it is done completely and under the written permission of Eurofins Product Testing Service (Shanghai) Co., Ltd. If you happen to have any complaints, please do it by sending email to [china.complaint@eurofins.com](mailto:china.complaint@eurofins.com) and referring to this report number.*

**SAMPLE PHOTO**



**EFSH18111578-CG-01**

\*\*\*TO BE CONTINUED\*\*\*

## **COMPONENT LIST**

<b>Component No.</b>	<b>Component</b>
1	Grey plastic with silver plating (button/nose)
2	Black soft plastic (stylus pen)
3	Silver metal pen clip
4	Natural color wood excluding coating (barrel)

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Nickel Release

Test Request: Nickel release as specified in regulation (EC) No 552/2009 amending entry 27 of annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: According to EN1811:2011+A1:2015

Test Item	Unit	MDL	Test Result (*)
			3
Nickel Release	$\mu\text{g}/\text{cm}^2/\text{week}$	0.1	ND

#### Note:

MDL = method detection limit

ND = not detected, less than MDL.

$\mu\text{g}/\text{cm}^2/\text{week}$  = micrograms per square centimetre per week

#### Remark:

\* For materials and articles coming into direct and prolonged contact with the skin the migration limit is  $0.5 \mu\text{g}/\text{cm}^2/\text{week}$ . According to EN 1811:2011+A1:2015, considering the combined measurement uncertainty of the method, these materials/articles shall be accepted and be permitted to be placed on the market if the measured nickel release value is less than  $0.88 \mu\text{g}/\text{cm}^2/\text{week}$ .

Limit ( $\mu\text{g}/\text{cm}^2/\text{week}$ )	Test result ( $\mu\text{g}/\text{cm}^2/\text{week}$ )	Conclusion according to EN1811:2011+A1:2015
0.5	<0.88	Pass
	$\geq 0.88$	Fail

\* For materials and articles which are inserted into pierced ears or other pierced parts of human body the migration limit is  $0.2 \mu\text{g}/\text{cm}^2/\text{week}$ . According to EN 1811:2011+A1:2015, considering the combined measurement uncertainty of the method, these materials/articles shall be accepted and be permitted to be placed on the market if the measured nickel release value is less than  $0.35 \mu\text{g}/\text{cm}^2/\text{week}$ .

Limit ( $\mu\text{g}/\text{cm}^2/\text{week}$ )	Test result ( $\mu\text{g}/\text{cm}^2/\text{week}$ )	Conclusion according to EN1811:2011+A1:2015
0.2	<0.35	Pass
	$\geq 0.35$	Fail

\*\*\*TO BE CONTINUED\*\*\*

## **TEST RESULT**

### **SCCP Content**

Test Request: SCCP content as specified in Regulation (EC) No 850/2004 of the European Parliament and of the Council on persistent organic pollutants as regards Annex I and its amendment Regulation (EU) 2015/2030.

Test Method: EPA 3550C:2007, EPA 8270D:2014, solvent extraction and quantification by GC-MS.

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result	
					1	2
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	%	0.15	0.005	ND	ND

### **Remark:**

MDL = method detection limit

ND = Not detected, less than MDL

The production, placing on the market and use of substances or preparations containing SCCPs in concentrations lower than 1 % by weight or articles containing SCCPs in concentrations lower than 0.15 % by weight shall be allowed.

As per client's request, only the appointed materials have been tested.

\*\*\*TO BE CONTINUED\*\*\*

## **TEST RESULT**

### **Pentachlorophenol (PCP) Content**

Test Request: Pentachlorophenol (PCP) content as specified in entry 22 of annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: With reference to ISO 17070:2015, analysis was performed by GC-MS.  
With reference to §64 LFGB B 82.02.8-2001, analysis was performed by GC-MS.  
With reference to EPA 3550C:2007, EPA 8270D:2014, solvent extraction and quantification by GC-MS.

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result
					4
Pentachlorophenol (PCP)	87-86-5	mg/kg	1000	0.5	ND

**Remark:**

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

\*\*\*TO BE CONTINUED\*\*\*

## **TEST RESULT**

### **Total Arsenic Content**

Test Request: Arsenic compound content expressed as total arsenic as specified in entry 19 of annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: EPA 3050B:1996, EPA 3051A:2007, EPA 3052:1996  
Acid digestion/ microwave digestion method was used and total arsenic content was determined by ICP-OES.

Tested Item(s)	Unit	Limit	MDL	Result
				4
Total Arsenic	mg/kg	Not Detected	10	ND

**Remark:**

MDL = method detection limit

ND = Not detected, less than MDL

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Phthalates Content (15P)

Test Request: Phthalates content according to client's request

Test Method: EPA 3550C:2007, EPA 8270D:2014, solvent extraction and quantification by GC-MS.

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result	
					1	2
Di-n-butyl phthalate (DBP)	84-74-2	%	0.1	0.005	ND	ND
Di(2-ethylhexyl) phthalate (DEHP, DOP)	117-81-7	%	0.1	0.005	ND	ND
Butyl benzyl phthalate (BBP)	85-68-7	%	0.1	0.005	ND	ND
Diisobutyl phthalate (DIBP)	84-69-5	%	0.1	0.005	ND	ND
Di-n-pentyl phthalate (DNPP)	131-18-0	%	0.1	0.005	ND	ND
Di-n-hexyl phthalate (DNHP)	84-75-3	%	0.1	0.005	ND	ND
N-pentyl-isopentylphthalate (PIPP)	776297-69-9	%	0.1	0.005	ND	ND
Diisopentylphthalate (DIPP)	605-50-5	%	0.1	0.005	ND	ND
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	%	0.1	0.005	ND	ND
1,2-Benzenedicarboxylic Acid, di-C6-8-branched alkyl esters, C7-ich (DIHP)	71888-89-6	%	0.1	0.005	ND	ND
1,2-Benzenedicarboxylic Acid, di-C7-11 branched and linear alkyl esters (DHNUP)	68515-42-4	%	0.1	0.005	ND	ND
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (DPP)	84777-06-0	%	0.1	0.005	ND	ND
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (DIHP)	68515-50-4	%	0.1	0.005	ND	ND
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate (C6-10 phthalate)	68515-51-5, 68648-93-1	%	0.1	0.005	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.1	0.005	ND	ND

**Remark:**

1 mg/kg = 1 ppm = 0.0001%

MDL = method detection limit

ND = Not detected, less than MDL

As per client's request, only the appointed materials have been tested.

\*\*\*END OF THE REPORT\*\*\*