

TEST REPORT

APPLICANT : Anhui Inno-Sign International Co., Ltd

ADDRESS : Room 1410, Building B, Sky Blue Business Center, No.188
South Qianshan Road, Hefei, Anhui Province, China

SAMPLE DESCRIPTION : 4 in 1 pen

ITEM NO. : P327.10

COUNTRY OF ORIGIN : China

COUNTRY OF DESTINATION : Europe

SAMPLE RECEIVED DATE : 26-Sep-2014

FURTHER INFORMATION DATE : 09-Oct-2014

TURN AROUND TIME : 09-Oct-2014 to 10-Oct-2014, 2 Working Days

TEST REQUESTED	RESULT
- Based on the document ZEK 01.4-08 issued by the Central Experience Exchange Committee (ZLS-ZEK) – PAHs Content	Pass
- REACH Regulation (EC) No. 1907/2006, Annex XVII – PAHs Content	Pass

Eurofins (Shanghai) contact informationCustomer service: EmilyDeng@eurofins.com / 021-61819259Sales specialist: WandyShen@eurofins.com / 18616155723

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

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



Chris Zhang
Lab Manager

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SAMPLE PHOTO



EFSH14092079-CG

TO BE CONTINUED

COMPONENT LIST

Component No.	Component
1	Black soft plastic

TO BE CONTINUED

TEST RESULT

Polycyclic Aromatic Hydrocarbons (PAHs)

- Test specification : 18 Polycyclic Aromatic Hydrocarbons in polymers (PAHs) (defined in US EPA Method 610, and also Based on the document ZEK 01.4-08)
- Test method : Solvent extraction and quantification by gas chromatography-mass selective detection (GC-MS) with respect to ZEK 01.4-08
- Requirement : ZLS-ZEK 01.4-08 (table 1): Limits for PAH in products. see below:

Parameter	Category 1 Materials intended to be put in the mouth, or toys for children<36 months	Category 2 Materials with foreseeable contact to skin for longer than 30 seconds (long-term skin contact) and toys not covered by category 1	Category 3 Materials with foreseeable contact to skin up to 30 seconds (short-term skin contact) or without skin contact
Benzo(a)pyrene(mg/kg)	<0.2	1	20
Sum 18 PAHs(mg/kg)	<0.2	10	200
Parameter	CAS No.	Unit	Result
Group PAHs	--	mg/kg	2.90
Acenaphthene	83-32-9	mg/kg	ND
Acenaphthylene	208-96-8	mg/kg	ND
Anthracene	120-12-7	mg/kg	ND
Benzo(a)anthracene	56-55-3	mg/kg	ND
Benzo(a)pyrene	50-32-8	mg/kg	ND
Benzo(b)fluoranthene	205-99-2	mg/kg	ND
Benzo(ghi)perylene	191-24-2	mg/kg	ND
Benzo(k)fluoranthene	207-08-9	mg/kg	ND
Chrysene	218-01-9	mg/kg	ND
Dibenzo(a,h)anthracene	53-70-3	mg/kg	ND
Fluoranthene	206-44-0	mg/kg	0.693
Fluorene	86-73-7	mg/kg	ND
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	ND
Naphthalene	91-20-3	mg/kg	0.429
Phenanthrene	1985-1-8	mg/kg	0.728
Pyrene	129-00-0	mg/kg	1.05
Benzo(j)fluoranthene	205-82-3	mg/kg	ND
Benzo(e)pyrene	192-97-2	mg/kg	ND
Summary to above mentioned requirement:	For Category 2 skin contact more than 30 sec		Pass

Note:

mg/kg = milligram per kilogram

ND=not detected, less than 0.2 mg/kg

TO BE CONTINUED

TEST RESULT

Polycyclic Aromatic Hydrocarbons (PAHs)

Test Requested : To determine the Polycyclic Aromatic Hydrocarbons (PAHs) content of the submitted sample in accordance with Entry 50 of Regulation (EU) No 1272/2013 amending Annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method : With reference to ISO 18287:2006, Analysis was performed by GC/MS.

Test Item(s)	Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	1		
Benzo(a)anthracene	ND	0.1	1
Chrysene	ND	0.1	1
Benzo(b)fluoranthene	ND	0.2	1
Benzo(j)fluoranthene			
Benzo(k)fluoranthene	ND	0.1	1
Benzo(a)pyrene	ND	0.1	1
Dibenzo(a,h)anthracene	ND	0.1	1
Benzo(e)pyrene	ND	0.1	1

Note:

M.D.L. = method detection limit

ND = Not detected, less than detection limit

*** END OF THE REPORT ***