



**BUREAU
VERITAS**

TEST REPORT

LAB NO. : (6623)261-0498
DATE : September 22, 2023
PAGE : 1 OF 5

Applicant:

HANGZHOU TIANYA INDUSTRY CO., LTD

RM 1004,B1,IBC OF EASTERN HANGZHOU,NO.600 JINSHA RD,HANGZHOU E&T DEVELOPMENT ZONE,310018,ZHEJIANG,CHINA

Date of Submission: 2023-9-18
Test Period: 2023-9-18 to 2023-9-22
Sample Mode: Sample Presentation
BV EE Ref. No.: /

Sample Description:	Sample(s) received is(are) stated to be: 酸性黄 128		
Manufacturer:	/	Buyer:	/
Style No(s):	/	PO No.:	/
Country of Origin:	/	Country of Destination:	Oversea Country

Test Item(s): Details see page 2

SUMMARY OF TEST RESULTS

TEST REQUESTED	REMARK
Extractable Metal Content	See Result
Aromatic Amines Content from Azo Colorants	See Result

Note: The tested part of the sample was specified by client.
The test conclusion was given based on the results of tested part.

REMARK

If there are questions or concerns on this report, please contact the following persons:

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BUREAU VERITAS CONSUMER PRODUCTS SERVICES DIVISION (SHANGHAI)

Laboratory Test Location:

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TEST RESULT

Extractable Metal Content

Test Method: EN 16711-2 :2015
Textiles – Determination of metal content – Part2: Determination of metals extracted by acidic artificial perspiration solution

Parameter	Unit	MDL	Result		
			1	2	3
Cadmium (Cd)	mg/kg	0.02	ND	ND	ND
Cobalt (Co)	mg/kg	0.1	0.516	0.228	0.305
Chromium (Cr)	mg/kg	0.1	ND	ND	ND
Copper (Cu)	mg/kg	5	ND	ND	ND
Nickel (Ni)	mg/kg	0.1	0.112	0.122	0.154
Lead (Pb)	mg/kg	0.1	ND	ND	ND
Antimony (Sb)	mg/kg	0.5	ND	ND	ND
Arsenic (As)	mg/kg	0.02	ND	ND	ND
Mercury (Hg)	mg/kg	0.005	ND	ND	ND
Chromium VI (Cr VI)	mg/kg	0.5	ND	ND	ND



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TEST RESULT

Aromatic Amines Content from Azo Colorants

Test Method I : EN ISO 14362-1:2017
Test Method II : ISO 17234-1: 2015
Test Method III : EN ISO 14362-3: 2017
Test Method IV : ISO 17234-2: 2011
Quantification analysis by GC-MS and confirmation by LC-DAD.

Client Limit:	/
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Tested Item(s)	Test Method	Result			Conclusion
		Detected Analyte(s)	Concentration	Unit	
4	I&III	Aniline	1.30×10^3	mg/kg	DATA
5	I&III	Aniline	2.62×10^3	mg/kg	DATA
6	I&III	Aniline	1.27×10^3	mg/kg	DATA

Note:

Detection Limit (mg/kg): Each 10

Conc. = Concentration

Remark:

- *Azo colorants that are able to form p-aminoazobenzene, generate aniline and 1,4-phenylenediamine under the condition of test method I. If aniline and/or 1,4-phenylenediamine is not found by test method I, test result for 4-aminoazobenzene (CAS no. 60-09-3) is considered as "Not detected". Otherwise, the test method III will be employed to verify the presence of 4-aminoazobenzene.
- The list of amines in azo dyestuff is summarized in table of Appendix.



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APPENDIX

List of Amines in Azo Dyestuff:					
No.	Name of Analytes	CAS-No.	No.	Name of Analytes	CAS-No.
1	4-Aminodiphenyl	92-67-1	16	4,4'-Oxydianiline	101-80-4
2	Benzidine	92-87-5	17	4,4'-Thiodianiline	139-65-1
3	4-Chloro-o-Toluidine	95-69-2	18	2,4-Toluenediamine	95-80-7
4	2-Naphthylamine	91-59-8	19	o-Toluidine	95-53-4
5	o-Aminoazotoluene	97-56-3	20	2,4,5-Trimethylaniline	137-17-7
6	2-Amino-4-nitrotoluene	99-55-8	21	o-Anisidine	90-04-0
7	2,4-Diaminoanisoole	615-05-4	22	*p-Aminoazobenzene (4-Amino-azobenzene)	60-09-3
8	4,4'-Diaminodiphenylmethane	101-77-9	23	2,4-Xylidine	95-68-1
9	3,3'-Dichlorobenzidine	91-94-1	24	2,6-Xylidine	87-62-7
10	3,3'-Dimethoxybenzidine (o-Dianisidine)	119-90-4	25	4-chloro-o-toluidinium chloride	3165-93-3
11	3,3'-Dimethylbenzidine (o-Tolidine)	119-93-7	26	2-Naphthylammoniumacetate	553-00-4
12	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	27	2,4-diaminoanisoole sulphate	39156-41-7
13	p-Chloroaniline	106-47-8	28	2,4,5-trimethylaniline hydrochloride	21436-97-5
14	p-Cresidine	120-71-8	29	Aniline	62-53-3
15	4,4'-Methylene-bis-(2-chloraniline)	101-14-4	-	-	-

END