

# ANALYTICAL REPORT

Analytical Report Nr. **AR-19-YL-009367-01** Date **12/12/2019**

Center for Strategic Research and Development of Georgia  
 For the attention of Vakhtang Kobaladze  
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**SAMPLE CODE** 560-2019-00010194

Order Code: EUAA70-00005250  
 Reception Date: 4-Dec-2019  
 Analysis starting date: 10-Dec-2019  
 Analysis ending date: 12-Dec-2019  
 Sample described as: Piece of fabric



## Information provided by the customer:

Client reference: 13  
 Purchase Order Number:  
 Customer requirements: REACH Regulation (EC) No 1907/2006  
 Description: T-shirt black LC WAIKIKI, CLASSIC

CHEMICAL TESTS	RESULTS	LOQ	GUIDELINES	
<b>YLN1H Azo dyes: Determination of 4-aminoazobenzene</b>				Analysis ending date: 12/12/2019
4-aminoazobenzene	<20 mg/kg	20	REACH : < 30 mg/kg	✓ Pass
Detection and quantification method: GC/MS; Sampling procedure: Section 9 EN 14362-1:2017; Sample preparation: Section 9.3/9.4 EN 14362-3:2017				
<b>◆ YLN1I Determination of Cadmium and Lead</b>				Analysis ending date: 12/12/2019
Lead (Pb)	<0.0005 %	0.0005	REACH: < 0.0500 %	✓ Pass
Cadmium (Cd)	<0.0005 %	0.0005	REACH: < 0.0100 %	✓ Pass
<b>YLN1C Determination of azo dyes</b>				Analysis ending date: 12/12/2019
4-Aminobiphenyl	<5 mg/kg	5	REACH : < 30 mg/kg	✓ Pass
Benzidin	<5 mg/kg	5	REACH : < 30 mg/kg	✓ Pass
4-Chlorotoluidine	<5 mg/kg	5	REACH : < 30 mg/kg	✓ Pass
2-Naphthylamine	<5 mg/kg	5	REACH : < 30 mg/kg	✓ Pass
p-Chloroaniline	<5 mg/kg	5	REACH : < 30 mg/kg	✓ Pass
2,4-Diaminoanisole	<5 mg/kg	5	REACH : < 30 mg/kg	✓ Pass
4,4-Diaminodiphenylmethan	<5 mg/kg	5	REACH : < 30 mg/kg	✓ Pass

CHEMICAL TESTS	RESULTS	LOQ	GUIDELINES
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**YLN1C Determination of azo dyes**

Analysis ending date: 12/12/2019

3,3-Dichlorobenzidine	<5	mg/kg	5	REACH : < 30 mg/kg	✓ Pass
3,3-Dimethoxybenzidine	<5	mg/kg	5	REACH : < 30 mg/kg	✓ Pass
3,3-Dimethylbenzidine	<5	mg/kg	5	REACH : < 30 mg/kg	✓ Pass
3,3-Dimethyl-4,4-diaminodiphenyl methane	<5	mg/kg	5	REACH : < 30 mg/kg	✓ Pass
p-Cresidine	<5	mg/kg	5	REACH : < 30 mg/kg	✓ Pass
4,4-Methylene-bis-2-chloroaniline	<5	mg/kg	5	REACH : < 30 mg/kg	✓ Pass
4-Aminophenileter	<5	mg/kg	5	REACH : < 30 mg/kg	✓ Pass
4,4-Thiodianilin	<5	mg/kg	5	REACH : < 30 mg/kg	✓ Pass
o-Toluidin	<5	mg/kg	5	REACH : < 30 mg/kg	✓ Pass
2,4-Diaminotoluene	<5	mg/kg	5	REACH : < 30 mg/kg	✓ Pass
2,4,5-Trimethylaniline	<5	mg/kg	5	REACH : < 30 mg/kg	✓ Pass
o-Anisidine	<5	mg/kg	5	REACH : < 30 mg/kg	✓ Pass
2,4-Xylidine	<5	mg/kg	5		
2,6-Xylidine	<5	mg/kg	5		
HPLC Confirmation	Yes		-		

Detection and quantification method: GC/MS

Sampling procedure: Section 9 EN ISO 14362-1:2017

Evaluation Procedure - Point 10.1 (EN 14362-1:2017)

o-aminoazotoluene and 5-nitro-o-toluidine are further reduced to o-toluidine and 2,4-diaminotoluene.

Azo colorants that are able to form 4-aminoazobenzene, generate under the condition of this method aniline (CAS number 62-53-3) and 1,4 phenyldiamine (CAS-number 106-50-3). Due to detection limits, only aniline may be detected. The presence of these colorants should be tested by EN 14362-3.

## List Of Methods

YLN1C **Determination of azo dyes:** EN ISO 14362-1:2017

YLN1H **Azo dyes: Determination of 4-aminoazobenzene:** EN ISO 14362-3:2017

YLN1I **Determination of Cadmium and Lead:** Internal Method based on CPSC-CH-E1002-08.3 for Cd, ICP-MS; CPSC-CH-E1002-08.3

Signed for and on behalf of Eurofins Textile Testing Spain:



Report electronically validated by

**Maria Jesus Martinez Puig**

Chemical Lab manager

### EXPLANATORY NOTE

- ◆ Test not accredited
- Test is subcontracted within Eurofins group and is accredited
- Test is subcontracted within Eurofins group and is not accredited
- Test is subcontracted outside Eurofins group and is accredited
- Test is subcontracted outside Eurofins group and is not accredited

N/A = Not Applicable

Not detected = below Detection Limit

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## End Of Report

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