

ANALYTICAL REPORT

Analytical Report Nr. **AR-19-YL-002893-02** Date **30/04/2019**

Center for Strategic Research and Development of Georgia
 For the attention of Vakhtang Kobaladze
 5a Delisi 1st lane
 0177 Tbilisi
 GEORGIA

Phone 995322399019
 Email vakhtang@csrdg.ge



(*this report cancels and replaces the previous one, numbered AR-19-YL-002893-01/560-2019-00003013 dated 23/04/2019 which must be destroyed)

SAMPLE CODE 560-2019-00003013

Sample described as: T-shirt

According to the information supplied by the customer:
 Country of origin: Turkey
 Producer and/or a model: Atmosphere

Client reference: 13.T-Shirt Orange
 Order Code: EUAA70-00003020
 Purchase Order Number:
 Reception Date: 16/04/2019
 Analysis starting date: 16/04/2019
 Analysis ending date: 23/04/2019



| CHEMICAL TESTS | RESULTS | LOQ | GUIDELINES |
|--|----------|-----|----------------------------------|
| YLN1F Azo dyes: with extraction | | | Analysis ending date: 23/04/2019 |
| 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 |
| 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 |
| 4,4-Diamino-3,3-dimethyl diphenylmethane | <5 mg/kg | 5 | REACH : < 30 mg/kg ✓ Pass |

| CHEMICAL TESTS | RESULTS | LOQ | GUIDELINES |
|--|----------|-----|----------------------------------|
| YLN1F Azo dyes: with extraction | | | Analysis ending date: 23/04/2019 |
| 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-Thioaniline | <5 mg/kg | 5 | REACH : < 30 mg/kg ✓ Pass |
| o-Toluidine | <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 | |
| Aniline | <5 mg/kg | 5 | |
| 1-4-phenylenediamine | <5 mg/kg | 5 | |

Amines fs16 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 phenylenediamine (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

YLN1F Azo dyes: with extraction: EN 14362-1:2012

Signed for and on behalf of Eurofins Textile Testing Spain:



Report electronically validated by

Maria Jesus Martinez Puig

Chemical Lab manager

EXPLANATORY NOTE

- ◆ Test no accreditation
 - 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

Eurofins Textile Testing Spain

Calle Germán Bernácer, 4

03203 Elche

SPAIN

Phone+34 966 299 638

www.eurofins.com/tex