

# ANALYTICAL REPORT

Analytical Report Nr. **AR-19-YL-002884-02** Date **30/04/2019**

Center for Strategic Research and Development of Georgia  
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(\*this report cancels and replaces the previous one, numbered AR-19-YL-002884-01/560-2019-00003001 dated 23/04/2019 which must be destroyed)

## SAMPLE CODE 560-2019-00003001

Sample described as: T-shirt

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

Client reference: 1.T-Shirt Red  
 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
<b>YLN1F Azo dyes: with extraction</b>			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
<b>YLN1F Azo dyes: with extraction</b>			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**