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[Date of order] 10.03.2017  
[Date of delivery] 14.03.2017  
[Date] 09.05.2017

CTL®-No	377911
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## Test results



Deutsche  
Akkreditierungsstelle  
D-PL-11062-01-00

[Contact person] Mrs Verburg  
[Material] sample of a permanent make up pigment  
[Material description] product code: TIME2, Batch/Lot #: 22517, MQL Accession #: 478730  
[Order] testing according to COE Resolution ResAP(2008)1  
on requirements and criteria for the safety of tattoos and permanent make-up

not accredited tests are labelled with \*

[DE] Die Prüfergebnisse beziehen sich ausschließlich auf die Prüfgegenstände. Ohne schriftliche Genehmigung darf der Prüfbericht nicht auszugsweise vervielfältigt werden.

[GB] The denoted results are only valid for the tested sample. Without our written consent no single part of this report is allowed to be forwarded to third parties.

[F] Le resultat des examens se réfère uniquement aux objets téstes. Sans autorisation écrite, le résultat des examens ne doit pas être partiellement reproduit.

[NL] De testresultaten hebben uitsluitend betrekking op de testobjecten. Zonder schriftelijke toestemming mag het testrapport niet in uittreksel worden vermenigvuldigd.

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CTL<sup>®</sup>-No **377911**

[Material] sample of permanent make up pigment

[Material description] product code: TIME2

Batch/Lot #: 22517, MQL Accession #: 478730

				passed		
<b>Azo-dyestuffs, Part 1a</b> Investigation of aromatic amines with carcinogenic, mutagenic, reprotoxic and sensitising properties according to COE Resolution ResAP(2008)1 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm; limit: as low as technically avoidable				not detectable		
Biphenyl-4-arylamine	-	4-Methoxy-m-phenylenediamine	-	4,4'-Methylenebis-(2-chloroaniline)	-	yes
Benzidine	-	4,4'-Methylenedianiline	-	4-Methyl-m-phenylenediamine	-	
4-Chloro-o-toluidine	-	3,3'-Dichlorobenzidine	-	o-Anisidine	-	
2-Naphthylamine	-	3,3'-Dimethoxybenzidine	-	4-Aminoazobenzene	-	
o-Aminoazotoluene	-	3,3'-Dimethylbenzidine	-	6-Amino-2-ethoxynaphthaline	-	
5-Nitro-o-toluidine	-	4,4'-Methylenedi-o-toluidine	-	4-Amino-3-fluorophenol	-	
4-Chloroaniline	-	6-Methoxy-m-toluidine	-			
<b>Azo-dyestuffs, Part 1b</b> Investigation of carcinogens classified in Categories 1, 2 and 3 by the European Commission and mentioned in the Council Directive 1967/548/EEC of 27 June 1967 according to COE Resolution ResAP(2008)1 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm				not detectable		
4,4'-Oxydianiline	-	2,4,5-Trimethylaniline	-	2,6-Xylidine	-	yes
4,4'-Thiodianiline	-	Para-phenylenediamine	-			
o-Toluidine	-	2,4-Xylidine	-			
<b>Dyestuffs, Part 2</b> acc. to COE Resolution ResAP(2008)1 Methods: TLC-, HPLC-, GC/MS-analysis acc. to DIN 54231 Detection limit: 5 mg/L				not detectable		
Acid Green 16	-	Disperse Blue 1	-	Pigment Red 53	-	yes
Acid Red 26	-	Disperse Blue 106	-	Pigment Violet 3	-	
Acid Violet 17	-	Disperse Blue 124	-	Pigment Violet 39	-	
Acid Violet 49	-	Disperse Blue 3	-	Solvent Blue 35	-	
Acid Yellow 36	-	Disperse Blue 35	-	Solvent Orange 7	-	
Basic Blue 7	-	Disperse Orange 3	-	Solvent Red 24	-	
Basic Green 1	-	Disperse Orange 37	-	Solvent Red 49	-	
Basic Red 1	-	Disperse Red 1	-	Solvent Violet 9	-	
Basic Red 9	-	Disperse Red 17	-	Solvent Yellow 1	-	
Basic Violet 1	-	Disperse Yellow 3	-	Solvent Yellow 2	-	
Basic Violet 10	-	Disperse Yellow 9	-	Solvent Yellow 3	-	
Basic Violet 3	-	Pigment Orange 5	-			

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			passed	
<b>Heavy metals, Part 3</b> acc. to COE Resolution ResAP(2008)1 Method: Prior, G. (2014). Tattoo Inks: Analysis, Pigments, Legislation. Berlin: epubli. CTL Method 2, p. 83.				
	<b>Limit</b>	<b>Amount</b>		
Arsenic (As)	≤ 2 ppm	< 2 ppm	yes	
Barium (Ba)	≤ 50 ppm	< 50 ppm		
Cadmium (Cd)	≤ 0.2 ppm	< 0.2 ppm		
Cobalt (Co)	≤ 25 ppm	< 25 ppm		
Chromium (Cr), VI	≤ 0.2 ppm	< 0.2 ppm		
Copper (Cu), soluble	≤ 25 ppm	< 25 ppm		
Mercury (Hg)	≤ 0.2 ppm	< 0.2 ppm		
Nickel (Ni)	As low as technically achievable	< 0.5 ppm		
Lead (Pb)	≤ 2 ppm	< 2 ppm		
Selenium (Se)	≤ 2 ppm	< 2 ppm		
Antimony (Sb)	≤ 2 ppm	< 2 ppm		
Tin (Sn)	≤ 50 ppm	< 50 ppm		
Zinc (Zn)	≤ 50 ppm	< 50 ppm		
<b>PAH and BaP, Part 4</b> Investigation of 16 compounds of Polycyclic hydrocarbons incl. Benzo-a-pyrene acc. to COE Resolution ResAP(2008)1 Methods acc. to EPA, ZEK 2008-01 Detection limit: PAH 0.05 ppm as total, BaP 0.5 ppb Limit: PAH ≤ 0.5 ppm as total, BaP ≤ 5 ppb				
Naphthalene	-	Fluoranthene	-	yes
Acenaphthylene	-	Pyrene	-	
Acenaphthene	-	Benz(a)anthracene	-	
Fluorene	-	Chrysene	-	
Phenanthrene	-	Benzo(b)fluoranthene	-	
Anthracene	-	Benzo(k)fluoranthene	-	
<b>Sterility (microbiological test), Part 5*</b> Investigation of pseudomonads (King A + B) acc. to COE Resolution ResAP(2008)1 Methods: Oxidase test Detection limit: 1.0 x 10 <sup>1</sup> CFU/g				
			< 1.0 x 10 <sup>1</sup> CFU/g	yes
<b>Result: passed</b>				

additional information:

Result of Heavy metal Aluminium, perspiration solution: 20 ppm



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Test	Test procedure/Test method	Result	passed
<b>Anaerobes sulfite-reducing sporulating bacteria*</b>	acc. to ASU §64 LFGB L59.00-4	< 1.0 x 10 <sup>1</sup> CFU/g	yes
<b>Aerobes mesophilic sporulating bacteria*</b>	acc. to ASU §64 LFGB L06.00-18	< 1.0 x 10 <sup>1</sup> CFU/g	yes
<b>Results of sterility tests: passed</b>			

Yours sincerely

CTL<sup>®</sup> GmbH Bielefeld

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Sachbearbeiterin/customer consultant

i.V. Helmut Meyer  
Laborleitung/Lab Manager