



**we assist, advise and test**

CTL <sup>®</sup> no	395424/4
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[Material]	PMU colour sample
[Colour]	Mocca
[Batch/Lot no]	202207

						passed
<b>Azo-dyestuffs, Part 1a</b> Determination of aromatic amines with carcinogenic, mutagenic, reprotoxic and sensitising properties according to CoE Resolution ResAP(2008)1, Table 1 Methods acc. to DIN EN ISO 14362-1:2017-05 Limit of quantitation: 1 ppm; limit: as low as technically achievable						yes
Biphenyl-4-arylamine	-	4-Methoxy-m-phenylenediamine	-	4,4'-Methylenebis-(2-chloroaniline)	-	
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> Determination 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, Table 1 - 2nd part Methods acc. to DIN EN ISO 14362-1:2017-05 Limit of quantitation: 1 ppm; limit as low as technically achievable						yes
4,4'-Oxydianiline	-	2,4,5-Trimethylaniline	-	2,6-Xylidine	-	
4,4'-Thiodianiline	-	p-Phenylenediamine	-			
o-Toluidine	-	2,4-Xylidine	-			
<b>Dyestuffs, Part 2</b> Acc. to CoE Resolution ResAP(2008)1; Table 2 Methods: extraction and HPLC-DAD / GC/MS-analysis acc. to DIN 54231 Limit of quantitation: 5 ppm; limit as low as technically achievable						yes
Acid Green 16	-	Disperse Blue 1	-	Pigment Red 53	-	
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	-			

caption: LFGB = German Food and Feed Code, - = not detectable

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[Material]	PMU colour sample
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			passed			
<b>Heavy metals, Part 3</b> Acc. to CoE Resolution ResAP(2008)1; Table 3 Method: Prior, G. (2014). Tattoo Inks: Analysis, Pigments, Legislation, Berlin: epubli. CTL Method 2, p. 83.			yes			
	<b>Limit</b> (limit of quantitation below limit respectively; 0.5 ppm for Nickel)	<b>Amount</b>				
Arsenic (As)	≤ 2 ppm	< 2 ppm				
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)	≤ 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> Determination of 16 compounds of Polycyclic hydrocarbons incl. Benzo-a-pyrene acc. to CoE Resolution ResAP(2008)1 Methods acc. to AFPS GS 2019:01 PAK; EPA List of 16 PAH Limit of quantitation: PAH 0.05 ppm, BaP 5 ppb Limit: PAH ≤ 0.5 ppm as total, BaP ≤ 5 ppb			yes			
Naphthalene	-	Fluoranthene		-	Dibenzo(a,h)anthracene	-
Acenaphthylene	-	Pyrene		-	Indo (1,2,3-cd)pyrene	-
Acenaphthene	-	Benz(a)anthracene		-	Benzo(g,h,i)perylene	-
Fluorene	-	Chrysene		-	Benzo-a-pyrene (BaP)	-
Phenanthrene	-	Benzo(b)fluoranthene		-		
Anthracene	-	Benzo(k)fluoranthene		-	<b>Total</b>	-
<b>Sterility Test (external accredited laboratory), Part 5</b>			<b>not conducted</b>			
<b>Results:</b> Passed parts: 1,2,3,4; not conducted: part 5 <b>Overall: passed</b>						

**Additional information:**

Result of metal aluminium, perspiration solution: < 5 ppm  
During the testing of amines after reduction aniline was detected. According to annex II of EU Regulation 1223/2009 cosmetic products must not contain free aniline. This is also true for tattoo colors and PMUs. We recommend to test for free aniline.

caption: LFGB = German Food and Feed Code, - = not detectable

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