



Xtreme Inks  
2801 Ocean Park Blvd #308  
Santa Monica CA 90405  
United States

**CTL®-no**

[Contact person]

[Phone]

[Email]

[Order date]

[Date received]

[Service date]

**407959 / 42**

Jannik Menke

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tattoo-pmu@ctl-mails.de

29.01.2024

29.01.2024

07.02.2024

**Test report**

[Contact person]

Mr Lee

[Type of sample]

Tattoo color

[Order]

Testing according to Regulation 1907/2006 Annex XVII (Reach)  
of the European Parliament and the Council

[DE] Die Prüfergebnisse beziehen sich ausschließlich auf die Prüfgegenstände. Ohne schriftliche Genehmigung darf der Prüfbericht nicht auszugsweise vervielfältigt werden. 1/8  
[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 testés. 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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[VAT ID No]

DE 176 26 5000



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*we assist, advise and test*

CTL series no	Colour description/pigment description (CI no)	Article no/product code	Type of sample	Performed test	Result
407959/42	EXO WHITE	XI-EXOWHITE-EU	PERMANENT MAKEUP INK/TATTOO INK	Part 1 – 6	pass

Legend: n. d. = not detectable; LOQ = Limit of quantitation

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<b>Part 1: Document Check</b>	<b>Result</b>
On the basis of formulations, it is ruled out that prohibited substances are deliberately used in the colour.	
All ingredients meet the conditions of regulation 1907/2006 (Reach).	pass

<b>Part 2: Free amines</b> list according to Regulation 1907/2006 Annex XVII (Reach) of the European Parliament and the Council Method: Extraction with MeOH, analysis with GC/MS. Limit: 5 ppm; limit of quantitation: 5 ppm.	<b>LOQ</b>	<b>Limit</b>	<b>Amount</b>
4-Aminobiphenyl**	5 ppm	5 ppm	n. d.
4-Chloro-o-toluidine**	5 ppm	5 ppm	n. d.
4-o-Tolylazo-o-toluidin**	5 ppm	5 ppm	n. d.
4-Chloroaniline**	5 ppm	5 ppm	n. d.
4,4'-Methylenedianiline**	5 ppm	5 ppm	n. d.
3,3'-Dimethoxybenzidine**	5 ppm	5 ppm	n. d.
4,4'-Methylenedi-o-toluidine**	5 ppm	5 ppm	n. d.
4,4'-Methylenebis-(2-chloroaniline)**	5 ppm	5 ppm	n. d.
o-Anisidine**	5 ppm	5 ppm	n. d.
2-Methyl-p-phenylendiamin**	5 ppm	5 ppm	n. d.
4,4'-Oxydianilinie**	5 ppm	5 ppm	n. d.
o-Toluidine**	5 ppm	5 ppm	n. d.
p-Phenylendiamine**	5 ppm	5 ppm	n. d.
p-Toluidine **	5 ppm	5 ppm	n. d.
2,6-Xylidine	5 ppm	5 ppm	n. d.
2,4-Xylidine	5 ppm	5 ppm	n. d.
Benzidine**	5 ppm	5 ppm	n. d.
2-Naphtylamine**	5 ppm	5 ppm	n. d.
5-Nitro-o-toluidine**	5 ppm	5 ppm	n. d.
4-Methoxy-m-phenylendiamine**	5 ppm	5 ppm	n. d.

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3,3'-Dichlorobenzidine**	5 ppm	5 ppm	n. d.
4,4'-Bi-o-Toluidin**	5 ppm	5 ppm	n. d.
6-Methoxy-m-toluidine**	5 ppm	5 ppm	n. d.
4-Methyl-m-phenylenediamine**	5 ppm	5 ppm	n. d.
4-Aminoazobenzene**	5 ppm	5 ppm	n. d.
4-Amino-3-florophenol**	5 ppm	5 ppm	n. d.
4,4'-Thiodianiline**	5 ppm	5 ppm	n. d.
2,4,5-Trimethylaniline**	5 ppm	5 ppm	n. d.
Aniline**	5 ppm	5 ppm	n. d.
Sulfanilic acid**	5 ppm	5 ppm	n. d.
6-Amino-2-ethoxynaphtaline	5 ppm	5 ppm	n. d.

\*\*soluble

**Part 3: Screening incl. testing for prohibited preservatives and phthalates**

Various Extraction methods, analysis with GC/MS and HPLC.

Various limits and limits of quantitation.

List of tested substances.

Extraction in methanol, analysis with GC/MS and HPLC/DAD.

	<b>LOQ</b>	<b>Limit</b>	<b>Amount</b>
Phenol	0.5 ppm	0.5 ppm	n. d.
Benzoic acid	0.5 ppm	100 ppm	n. d.
2-Phenoxyethanol	0.5 ppm	100 ppm	n. d.
4-Chlor-3-methylphenol (CMK)	0.5 ppm	10 ppm	n. d.
Formaldehyde	0.5 ppm	0.5 ppm	n. d.
Acetaldehyde	0.5 ppm	0.5 ppm	n. d.
2-Methyl-3(2H)-Isothiazolone (MIT)	0.5 ppm	10 ppm	n. d.
Diisobutylphthalat (DIBP)	0.5 ppm	0.5 ppm	n. d.
Di(2-ethylhexyl)-Phthalat (DEHP)	0.5 ppm	0.5 ppm	n. d.
Di-iso-heptylphthalat (DIHP)	0.5 ppm	0.5 ppm	n. d.

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Diisopentylphthalat (DIPP)	0.5 ppm	0.5 ppm	n. d.
Dicyclohexylphthalat (DcHP)	0.5 ppm	0.5 ppm	n. d.
Diisohexylphthalat (DIHP)	0.5 ppm	0.5ppm	n. d.
1,2-Benzenedicarboxylic acid, di-C7-11, branched and linear alkyl esters (DUP,) (DHNUP)	0.5 ppm	0.5 ppm	n. d.
2-Phenylphenol (OPP)	0.5 ppm	100 ppm	n. d.
Benzisothiazolinone (BIT)	0.5 ppm	10 ppm	n. d.
Chloramin T	0.5 ppm	100 ppm	n. d.
Octhilonone (ISO); 2-octyl-2H-isothiazol-3-one	10 ppm	10 ppm	n. d.
Triclosan	0.5 ppm	100 ppm	n. d.
2-Thiocyanomethylthio)benzothiazol (TCMTB) Busan	0.5 ppm	10 ppm	n. d.
5-Chloro-2-methyl-3(2H)-isothiazolone (CIT)	0.5 ppm	10 ppm	n. d.
4,5-Dichlor-2-octyl-2H-isothiazol-3-on	10 ppm	10 ppm	n. d.
Dibutylphthalat (DBP)	0.5 ppm	0.5 ppm	n. d.
Benzylbutylphthalat (BBP)	0.5 ppm	0.5 ppm	n. d.
Bis(2-methoxyethyl)phthalat (DMEP)	0.5 ppm	0.5 ppm	n. d.
Di-n-pentylphthalat (DPP)	0.5 ppm	0.5 ppm	n. d.
Di-n-hexylphthalat (DnHP)	0.5 ppm	0.5 ppm	n. d.
n-Pentyl-isopentylphthalat (nPiP)	0.5 ppm	10 ppm	n. d.
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear, DiPP, nPiP	0.5 ppm	0.5 ppm	n. d.

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<b>Part 4: Heavy metals</b> Methods: Total digestion acc. ASU K 84.00-29:2016-07; ICP-OES analysis DIN EN ISO 11885:2009-09. ICP-MS acc. to DIN EN ISO 17294-1:2017-1 Soluble: Prior, G. (2014), Tattoo Inks: Analysis, Pigments, Legislation. Berlin: epubli. CTL, p 83. Chromium(VI): SOP 4268 in house method based on DIN EN ISO 17075-1:2017-05 Organometallic tin: DIN CEN ISO/TS 16179:2012-12 Limit of quantitation: equal or below the limit respectively.	<b>LOQ</b>	<b>Limit</b>	<b>Amount</b>
Mercury	0.5 ppm	0.5 ppm	n. d.
Nickel	1 ppm	5 ppm	n. d.
Organometallic tin	0.5 ppm	0.5 ppm	n. d.
Antimony	0.5 ppm	0.5 ppm	n. d.
Arsenic	0.5 ppm	0.5 ppm	n. d.
Barium**	500 ppm	500 ppm	n. d.
Cadmium	0.5 ppm	0.5 ppm	n. d.
Chromium as Cr(VI)	0.5 ppm	0.5 ppm	n. d.
Cobalt	0.5 ppm	0.5 ppm	n. d.
Copper**	250 ppm	250 ppm	n. d.
Zinc**	2000 ppm	2000 ppm	n. d.
Lead	0.7 ppm	0.7 ppm	n. d.
Selenium	2 ppm	2 ppm	n. d.

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<b>Part 5: Polyaromatic hydrocarbons</b> Method: AFPS GS 2019:01 PAK, extraction in toluene Limit: 0.5 ppm / BaP 5 ppb; limit of quantitation: 0.1 ppm / BaP 5 ppb	<b>LOQ</b>	<b>Limit</b>	<b>Amount</b>
Benz[a]pyrene	5 ppb	5 ppb	n. d.
Naphthalene	0.1 ppm	0.5 ppm	n. d.
Chrysene	0.1 ppm	0.5 ppm	n. d.
Benzo[b]fluoranthene	0.1 ppm	0.5 ppm	n. d.
Dibenzo[ah]anthracene	0.1 ppm	0.5 ppm	n. d.
Benzo[j]fluoranthene	0.1 ppm	0.5 ppm	n. d.
Dibenzo[al]pyrene	0.1 ppm	0.5 ppm	n. d.
Dibenzo[ah]pyrene	0.1 ppm	0.5 ppm	n. d.
Anthracene	0.1 ppm	0.5 ppm	n. d.
Benzo[a]anthracene	0.1 ppm	0.5 ppm	n. d.
Benzo[k]fluoranthene	0.1 ppm	0.5 ppm	n. d.
Benzo[e]pyrene	0.1 ppm	0.5 ppm	n. d.

<b>Part 6: Sterility</b> (microbiological test) Limit of quantitation: < 10 CFU/g <i>Test conducted by an accredited external laboratory.</i>	<b>Method</b>	<b>Amount</b>
Spores of aerobes spore-forming, quantitative*	In-house method	n. d.
Spores of anaerobes spore-forming, quantitative*	In-house method	n. d.
Bacillus cereus presumptive, quantitative	§64 LFGB 00.00-33, mod.	n. d.
Sulphite reducing clostridia, quantitative	§64 LFGB 06.00-39, mod.	n. d.
Total viable count, aerobes mesophil 30°C	§64 LFGB 00.00-88/2, mod.	n. d.
Total viable count, anaerobes mesophil 30°C*	In-house method	n. d.
Pseudomonas sp., quantitative	§64 LFGB 06.00-43, mod.	n. d.

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Comment:

CTL GmbH assumes full responsibility for test results of tests conducted by an accredited, external laboratory.

Yours sincerely,

CTL<sup>®</sup> GmbH Bielefeld

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Customer consultant

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