

# CERTIFICATE OF COMPLIANCE

Testing of Intenze Gen Z was completed by third- party lab CTL GMBH to the standards that are accepted by the EU. Each raw material that is in the Gen Z Tattoo Ink is compliant with safety standards that have been set for tattoo pigment manufacturing companies. For more information, you can find the safety data sheets (SDS) of each Gen Z product on our website.

By using third-party lab testing this confirms that all raw materials and finished products meet or exceed Reach Resolution 1907/2006. None of our pigments contain materials that are classified as a hazardous material and are compliant under CLP (EC 1272/2008/EC).

Finished products are in full compliance with REACH, ECHA, BPR, and CLR. Intenze will continue to monitor raw materials that are provided by our suppliers to maintain our compliance. This will ensure that the above statement is accurate.

**All INTENZE GEN Z pigments are manufactured in an facility exclusive to INTENZE and is certified in ISO 9001:2015 and ISO 22716.**



**CTL® GMBH**  
Chemical Technological Laboratory



INTENZE Products Austria GmbH

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 AUSTRIA

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 [order date] -----  
 [date received] 29.12.2021  
 [service date] 07.02.2022


Not accredited tests are labelled with \*

**Test report**

[Contact person]

Mr Hernesz

[Type of sample]

Liquid test sample: Yellow 151 Base Color (CI 13980)

[Order]

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

 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.

CTL series no	Colour description/ pigment description(CI no)	Batch no/Lot no	Type of sample	Performed test	Result
400363/1	Yellow 151 Base Color Formulation B (CI 13980)	YH4G001	Liquid test sample	Part 1 - 5	Pass

**Collection of lists measured in part 2, part 3, part 4, part 5 and part 6.**

CTL no 400363/1	
<b>Sample identification</b>	Yellow 151 Base Color Formulation B (CI 13980)
Ingredients	
Type of sample	Liquid test sample
Batch no/Lot no	YH4G001
Test results valid until	06.02.24
Performed tests	Part 1 - 5
Result of performed tests	Pass
<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>	<b>Result</b>
Method: Extraction with MeOH, analysis with GC/MS. Limit: 5 mg/kg; limit of quantitation: 5 mg/kg.	
The detailed list of amines can be found at the end of this test report. No free amines above the required limit were detected in the sample.	pass
<b>Part 3: Screening incl. testing for prohibited preservatives and phthalates*</b>	<b>Result</b>
Various Extraction methods, analysis with GC/MS and HPLC. Various limits and limits of quantitation.	
A list of tested prohibited preservatives and phthalates can be found at the end of this test report. No forbidden substances were detected in the sample.	pass
<b>Part 4: Heavy metals</b>	<b>Result</b>
Total digestion acc. ASU K 84.00.29:2016-07; ICP-OES analysis DIN EN IOS 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): DIN EN ISO 17075-1:2017-05 Organometallic tin: DIN CEN ISO/TS 16179:2012-12	
A list of heavy metals, their limits and limit of quantitation can be found at the end of this test report. No heavy metals above the required limit were detected in the sample.	pass
<b>Part 5: Polyaromatic hydrocarbons</b>	<b>Result</b>
Method: AFPS GS 2019:01 PAK, extraction in toluene	
A list of PAHs, their limits and their limit of quantitation can be found at the end of this test report. No PAHs exceeding the limit values were detected in the sample.	pass

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[Address]	Krackser Straße 12 33659 Bielefeld, Germany	[Phone]	+49 521 400 82 89 0	[Bank]	Sparkasse Gütersloh Konrad-Adenauer-Platz 1
[Managing Director]	Kerry-Luise Prior	[Email]	sekretariat@ctl-mails.de		33330 Gütersloh, GERMANY
[Registered office in]	Bielefeld	[Homepages]	ctl-bielefeld.de	[SWIFT/BIC]	WELADED 1 GTL
[Register of Companies]	AG Bielefeld, HRB 35-412		tattoolab.eu	[IBAN]	DE 87 47850065 000 4005345
[VAT ID No]	DE 176 26 5000				

Part 2: Free amines	
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.	
4-Aminobiphenyl**	Benzidine**
4-Chloro-o-toluidine**	2-Naphtylamine**
4-o-Tolylazo-o-toluidin**	5-Nitro-o-toluidine**
4-Chloroaniline**	4-Methoxy-m-phenylenediamine**
4,4'-Methylenedianiline**	3,3'-Dichlorobenzidine**
3,3-Dimethoxybenzidine**	4,4'-Bi-o-Toluidin**
4,4'-Methylenedi-o-toluidine**	6-Methoxy-m-toluidine**
4,4'-Methylenebis-(2-chloroaniline)**	4-Methyl-m-phenylenediamine**
o-Anisidine**	4-Aminoazobenzene**
2-Methyl-p-phenylenediamin**	4-Amino-3-florophenol**
4,4'-Oxydianiline**	4,4'-Thiodianiline**
o-Toluidine**	2,4,5-Trimethylaniline**
p-Phenylenediamine**	Aniline**
p-Toluidine**	Sulfanilic acid**
2,6-Xylidine	6-Amino-2-ethoxynaphtaline
2,4-Xylidine	
**soluble	
Part 3: Screening incl. testing for prohibited preservatives and phthalates*	
List of tested substances. Extraction in methanol, analysis with GC/MS and HPLC/DAD.	
Phenol	2-Phenylphenol (OPP)
Benzoic acid	Benzisothiazolinone (BIT)
2-Phenoxyethanol	Chloramin T
4-Chlor-3-methylphenol (CMK)	Octhilinone (ISO); 2-octyl-2H-isothiazol-3-one
Formaldehyde	Triclosan
Acetaldehyde	2-Thiocyanomethylthio)benzothiazol (TCMTB) Busan
5-Chloro-2-methyl-3(2H)-isothiazolone (CIT)	5-Chloro-2-methyl-3(2H)-isothiazolone (CIT)
2-Methyl-3(2H)-isothiazolone (MIT)	4,5-Dichlor-2-octyl-2H-isothiazol-3-on
Diisobutylphthalat (DIBP)	Dibutylphthalat (DBP)
Di(2-ethylhexyl)-Phthalat (DEHP)	Benzylbutylphthalat (BBP)
Di-iso-heptylphthalat (DIHP)	Bis(2-methoxyethyl)phthalat (DMEP)
Diisopentylphthalat (DIPP)	Di-n-pentylphthalat (DPP)
Dicyclohexylphthalat (DcHP)	Di-n-hexylphthalat (DnHP)
Diisohexylphthalat (DIHP)	n-Pentyl-isopentylphthalat (nPIP)
1,2-Benzenedicarboxylic acid, di-C7-11, branched and linear alkyl esters (DUP), (DHNUP)	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear, DIPP, nPIP

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[Registered office in]	Bielefeld	[Homepages]	ctl-bielefeld.de	[SWIFT/BIC]	WELADED 1 GTL
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**Part 4: Heavy metals**

## Methods:

Total digestion acc. ASU K 84.00.29:2016-07; ICP-OES analysis DIN EN IOS 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): 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>Metal</b>	<b>Limit</b>
Mercury	0.5 ppm
Nickel	5 ppm
Organometallic tin	0.5 ppm
Antimony	0.5 ppm
Arsenic	0.5 ppm
Barium**	500 ppm
Cadmium	0.5 ppm
Chromium as Cr(VI)	0.5 ppm
Cobalt	0.5 ppm
Copper**	250 ppm
Zinc**	2000 ppm
Lead	0.7 ppm
Selenium	2 ppm

\*\*soluble

**Part 5: Polyaromatic hydrocarbons**

Method: AFPS GS 2019:01 PAK, extraction in toluene

Limit: 0.5 ppm / BaP 5 ppb;

limit of quantitation: 0.5 ppm / BaP 5 ppb

Naphthalene	Acenaphthalene	Acenaphthene
Fluorene	Phenanthrene	Anthracene
Fluoranthene	Pyrene	Benzo[a]anthracene
Chrysene	Benzo[b]fluoranthene	Benzo[k]fluoranthene
Benzo[a]pyrene	Dibenzo[ah]anthracene	Indeno[1,2,3,cd]pyrene
Benzo[ghi]perylene	Benzo[j]fluoranthene	Benzo[e]pyrene
Cyclopenta[cd]pyrene	Dibenzo[al]pyrene	Dibenzo[ae]pyrene
Dibenzo[ai]pyrene	Dibenzo[ah]pyrene	1-Methylpyrene
Benzo[c]fluorene	5-Methylchrysene	

**Part 6: Sterility**

(microbiological test)

Limit of quantitation: &lt; 10 CFU/g

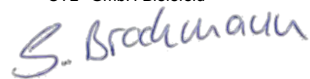
Test conducted by an accredited external laboratory.

Spores of aerobes spore-forming, quantitative*	In-house method
Spores of anaerobes spore-forming, quantitative*	In-house method
Bacillus cereus presumptive, quantitative	§64 LFGB 00.00-33, mod.
Sulphite reducing clostridia, quantitative	§64 LFGB 06.00-39, mod.
Total viable count, aerobes mesophil 30°C	§64 LFGB 00.00-88/2, mod.
Total viable count, anaerobes mesophil 30°C*	In-house method
Pseudomonas sp., quantitative	§64 LFGB 06.00-43, mod.

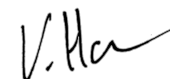
## Comment:

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

 Yours sincerely,  
 CTL® GmbH Bielefeld



 i.A. Simone Brockmann  
 Representative for tattoo products



 i.V. Veit Houben  
 Manager chemical-analytical laboratory

INTENZE Products Austria GmbH

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 [order date] -----  
 [date received] 29.12.2021  
 [service date] 09.02.2022


Not accredited tests are labelled with \*

**Test report**

[Contact person]

Mr Hernesz

[Type of sample]

Liquid test samples: Carbon Black Base, Blue 15 Base, Orange 64 Base, Red 202 Base, Red 254 Base, Yellow 180 Base

[Order]

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

CTL series no	Colour description/pigment description(CI no)	Batch no/Lot no	Type of sample	Performed test	Result
400362/1	Carbon Black Dispersion (CI 77266), Formulation B	BLK001	Liquid test sample	Part 2 - 5	Pass
400362/2	Blue 15 Base Dispersion (CI74160) Formulation B	RB007	Liquid test sample	Part 2 - 5	Pass
400362/3	Orange 64 Base Dispersion (CI 12760) Formulation B	OR001	Liquid test sample	Part 2 - 5	Pass
400362/4	Red 202 Base Dispersion (CI73907) Formulation B	M001	Liquid test sample	Part 2 - 5	Pass
400362/5	Red 254 Base Dispersion (CI 56110) Formulation B	RD001	Liquid test sample	Part 2 - 5	Pass
400362/6	Yellow 180 Base Dispersion (CI 21290) Formulation B	Y180001	Liquid test sample	Part 2 - 5	Pass

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CTL no 400362/1	
<b>Sample identification</b>	Carbon Black Dispersion (CI 77266), Formulation B
<b>Ingredients</b>	
Type of sample	Liquid test sample
Batch no/Lot no	BLK001
Test results valid until	08.02.24
Performed tests	Part 2 - 5
Result of performed tests	Pass

Part 1: Document Check	Result
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

Part 2: Free amines	Result
Method: Extraction with MeOH, analysis with GC/MS. Limit: 5 mg/kg; limit of quantitation: 5 mg/kg.	
The detailed list of amines can be found at the end of this test report. No free amines above the required limit were detected in the sample.	pass

Part 3: Screening incl. testing for prohibited preservatives and phthalates*	Result
Various Extraction methods, analysis with GC/MS and HPLC. Various limits and limits of quantitation.	
A list of tested prohibited preservatives and phthalates can be found at the end of this test report. No forbidden substances were detected in the sample.	pass

Part 4: Heavy metals	Result
Total digestion acc. ASU K 84.00.29:2016-07; ICP-OES analysis DIN EN IOS 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): DIN EN ISO 17075-1:2017-05 Organometallic tin: DIN CEN ISO/TS 16179:2012-12	
A list of heavy metals, their limits and limit of quantitation can be found at the end of this test report. No heavy metals above the required limit were detected in the sample.	pass

Part 5: Polyaromatic hydrocarbons	Result
Method: AFPS GS 2019:01 PAK, extraction in toluene	
A list of PAHs, their limits and their limit of quantitation can be found at the end of this test report. No PAHs exceeding the limit values were detected in the sample.	pass

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[Managing Director]	Kerry-Luise Prior	[Email]	sekretariat@ctl-mails.de	[SWIFT/BIC]	WELADED 1 GTL
[Registered office in]	Bielefeld	[Homepages]	ctl-bielefeld.de tattoolab.eu	[IBAN]	DE 87 47850065 000 4005345
[Register of Companies]	AG Bielefeld, HRB 35-412				
[VAT ID No]	DE 176 26 5000				

CTL no 400362/2	
<b>Sample identification</b>	Blue 15 Base Dispersion (CI74160) Formulation B
<b>Ingredients</b>	
Type of sample	Liquid test sample
Batch no/Lot no	RB007
Test results valid until	08.02.24
Performed tests	Part 2 - 5
Result of performed tests	Pass

Part 1: Document Check	Result
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

Part 2: Free amines	Result
Method: Extraction with MeOH, analysis with GC/MS. Limit: 5 mg/kg; limit of quantitation: 5 mg/kg.	
The detailed list of amines can be found at the end of this test report. No free amines above the required limit were detected in the sample.	pass

Part 3: Screening incl. testing for prohibited preservatives and phthalates*	Result
Various Extraction methods, analysis with GC/MS and HPLC. Various limits and limits of quantitation.	
A list of tested prohibited preservatives and phthalates can be found at the end of this test report. No forbidden substances were detected in the sample.	pass

Part 4: Heavy metals	Result
Total digestion acc. ASU K 84.00.29:2016-07; ICP-OES analysis DIN EN IOS 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): DIN EN ISO 17075-1:2017-05 Organometallic tin: DIN CEN ISO/TS 16179:2012-12	
A list of heavy metals, their limits and limit of quantitation can be found at the end of this test report. No heavy metals above the required limit were detected in the sample.	pass

Element	Chemical Symbol	Limit	Concentration	Unit
Nickel	Ni	5	1,5	ppm

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[Managing Director]	Kerry-Luise Prior	[Email]	sekretariat@ctl-mails.de	[SWIFT/BIC]	WELADED 1 GTL
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[VAT ID No]	DE 176 26 5000				

Part 5: Polyaromatic hydrocarbons				Result
Method: AFPS GS 2019:01 PAK, extraction in toluene				
A list of PAHs, their limits and their limit of quantitation can be found at the end of this test report. No PAHs exceeding the limit values were detected in the sample.				pass

PAH	CAS No	Limit	Concentration	Unit
Naphthalene	91-20-3	0,5	0,3	ppm

CTL no 400362/3	
Sample identification	Orange 64 Base Dispersion (CI 12760) Formulation B
Ingredients	
Type of sample	Liquid test sample
Batch no/Lot no	OR001
Test results valid until	08.02.24
Performed tests	Part 2 - 5
Result of performed tests	Pass

Part 1: Document Check	Result
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

Part 2: Free amines	Result
Method: Extraction with MeOH, analysis with GC/MS. Limit: 5 mg/kg; limit of quantitation: 5 mg/kg.	
The detailed list of amines can be found at the end of this test report. No free amines above the required limit were detected in the sample.	pass

Part 3: Screening incl. testing for prohibited preservatives and phthalates*	Result
Various Extraction methods, analysis with GC/MS and HPLC. Various limits and limits of quantitation.	
A list of tested prohibited preservatives and phthalates can be found at the end of this test report. No forbidden substances were detected in the sample.	pass

Part 4: Heavy metals	Result
Total digestion acc. ASU K 84.00.29:2016-07; ICP-OES analysis DIN EN IOS 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): DIN EN ISO 17075-1:2017-05 Organometallic tin: DIN CEN ISO/TS 16179:2012-12	
A list of heavy metals, their limits and limit of quantitation can be found at the end of this test report. No heavy metals above the required limit were detected in the sample.	pass

Part 5: Polyaromatic hydrocarbons	Result
Method: AFPS GS 2019:01 PAK, extraction in toluene	
A list of PAHs, their limits and their limit of quantitation can be found at the end of this test report. No PAHs exceeding the limit values were detected in the sample.	pass

CTL no 400362/4	
<b>Sample identification</b>	Red 202 Base Dispersion (CI73907) Formulation B
Ingredients	
Type of sample	Liquid test sample
Batch no/Lot no	M001
Test results valid until	08.02.24
Performed tests	Part 2 - 5
Result of performed tests	Pass
<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>	<b>Result</b>
Method: Extraction with MeOH, analysis with GC/MS. Limit: 5 mg/kg; limit of quantitation: 5 mg/kg.	
The detailed list of amines can be found at the end of this test report. No free amines above the required limit were detected in the sample.	pass
<b>Part 3: Screening incl. testing for prohibited preservatives and phthalates*</b>	<b>Result</b>
Various Extraction methods, analysis with GC/MS and HPLC. Various limits and limits of quantitation.	
A list of tested prohibited preservatives and phthalates can be found at the end of this test report. No forbidden substances were detected in the sample.	pass
<b>Part 4: Heavy metals</b>	<b>Result</b>
Total digestion acc. ASU K 84.00.29:2016-07; ICP-OES analysis DIN EN IOS 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): DIN EN ISO 17075-1:2017-05 Organometallic tin: DIN CEN ISO/TS 16179:2012-12	
A list of heavy metals, their limits and limit of quantitation can be found at the end of this test report. No heavy metals above the required limit were detected in the sample.	pass
<b>Part 5: Polyaromatic hydrocarbons</b>	<b>Result</b>
Method: AFPS GS 2019:01 PAK, extraction in toluene	
A list of PAHs, their limits and their limit of quantitation can be found at the end of this test report. No PAHs exceeding the limit values were detected in the sample.	pass

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[VAT ID No]	DE 176 26 5000				

CTL no 400362/5	
<b>Sample identification</b>	Red 254 Base Dispersion (CI 56110) Formulation B
Ingredients	
Type of sample	Liquid test sample
Batch no/Lot no	RD001
Test results valid until	08.02.24
Performed tests	Part 2 - 5
Result of performed tests	Pass
<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>	<b>Result</b>
Method: Extraction with MeOH, analysis with GC/MS. Limit: 5 mg/kg; limit of quantitation: 5 mg/kg.	
The detailed list of amines can be found at the end of this test report. No free amines above the required limit were detected in the sample.	pass
<b>Part 3: Screening incl. testing for prohibited preservatives and phthalates*</b>	<b>Result</b>
Various Extraction methods, analysis with GC/MS and HPLC. Various limits and limits of quantitation.	
A list of tested prohibited preservatives and phthalates can be found at the end of this test report. No forbidden substances were detected in the sample.	pass
<b>Part 4: Heavy metals</b>	<b>Result</b>
Total digestion acc. ASU K 84.00.29:2016-07; ICP-OES analysis DIN EN IOS 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): DIN EN ISO 17075-1:2017-05 Organometallic tin: DIN CEN ISO/TS 16179:2012-12	
A list of heavy metals, their limits and limit of quantitation can be found at the end of this test report. No heavy metals above the required limit were detected in the sample.	pass
<b>Part 5: Polyaromatic hydrocarbons</b>	<b>Result</b>
Method: AFPS GS 2019:01 PAK, extraction in toluene	
A list of PAHs, their limits and their limit of quantitation can be found at the end of this test report. No PAHs exceeding the limit values were detected in the sample.	pass

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[VAT ID No]	DE 176 26 5000				



CTL no 400362/6	
<b>Sample identification</b>	Yellow 180 Base Dispersion (CI 21290) Formulation B
Ingredients	
Type of sample	Liquid test sample
Batch no/Lot no	Y180001
Test results valid until	08.02.24
Performed tests	Part 2 - 5
Result of performed tests	Pass
<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>	<b>Result</b>
Method: Extraction with MeOH, analysis with GC/MS. Limit: 5 mg/kg; limit of quantitation: 5 mg/kg.	
The detailed list of amines can be found at the end of this test report. No free amines above the required limit were detected in the sample.	
pass	
<b>Part 3: Screening incl. testing for prohibited preservatives and phthalates*</b>	<b>Result</b>
Various Extraction methods, analysis with GC/MS and HPLC. Various limits and limits of quantitation.	
A list of tested prohibited preservatives and phthalates can be found at the end of this test report. No forbidden substances were detected in the sample.	
pass	
<b>Part 4: Heavy metals</b>	<b>Result</b>
Total digestion acc. ASU K 84.00.29:2016-07; ICP-OES analysis DIN EN IOS 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): DIN EN ISO 17075-1:2017-05 Organometallic tin: DIN CEN ISO/TS 16179:2012-12	
A list of heavy metals, their limits and limit of quantitation can be found at the end of this test report. No heavy metals above the required limit were detected in the sample.	
pass	
<b>Part 5: Polyaromatic hydrocarbons</b>	<b>Result</b>
Method: AFPS GS 2019:01 PAK, extraction in toluene	
A list of PAHs, their limits and their limit of quantitation can be found at the end of this test report. No PAHs exceeding the limit values were detected in the sample.	
pass	

**Collection of lists measured in part 2, part 3, part 4, part 5 and part 6.**

<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.	
4-Aminobiphenyl**	Benzidine**
4-Chloro-o-toluidine**	2-Naphtylamine**
4-o-Tolylazo-o-toluidin**	5-Nitro-o-toluidine**
4-Chloroaniline**	4-Methoxy-m-phenylenediamine**
4,4'-Methylenedianiline**	3,3'-Dichlorobenzidine**
3,3'-Dimethoxybenzidine**	4,4'-Bi-o-Toluidin**
4,4'-Methylenedi-o-toluidine**	6-Methoxy-m-toluidine**
4,4'-Methylenebis-(2-chloroaniline)**	4-Methyl-m-phenylenediamine**
o-Anisidine**	4-Aminoazobenzene**
2-Methyl-p-phenylenediamin**	4-Amino-3-florophenol**
4,4'-Oxydianilinie**	4,4'-Thiodianiline**
o-Toluidine**	2,4,5-Trimethylaniline**
p-Phenylenediamine**	Aniline**
p-Toluidine**	Sulfanilic acid**
2,6-Xylidine	6-Amino-2-ethoxynaphthalene
2,4-Xylidine	
**soluble	
<b>Part 3: Screening incl. testing for prohibited preservatives and phthalates*</b>	
List of tested substances. Extraction in methanol, analysis with GC/MS and HPLC/DAD.	
Phenol	2-Phenylphenol (OPP)
Benzoic acid	Benzisothiazolinone (BIT)
2-Phenoxyethanol	Chloramin T
4-Chlor-3-methylphenol (CMK)	Octhilinone (ISO); 2-octyl-2H-isothiazol-3-one
Formaldehyde	Triclosan
Acetaldehyde	2-Thiocyanomethylthio)benzothiazol (TCMTB) Busan
5-Chloro-2-methyl-3(2H)-isothiazolone (CIT)	5-Chloro-2-methyl-3(2H)-isothiazolone (CIT)
2-Methyl-3(2H)-Isothiazolone (MIT)	4,5-Dichlor-2-octyl-2H-isothiazol-3-on
Diisobutylphthalat (DIBP)	Dibutylphthalat (DBP)
Di(2-ethylhexyl)-Phthalat (DEHP)	Benzylbutylphthalat (BBP)
Di-iso-heptylphthalat (DIHP)	Bis(2-methoxyethyl)phthalat (DMEP)
Diisopentylphthalat (DIPP)	Di-n-pentylphthalat (DPP)
Dicyclohexylphthalat (DcHP)	Di-n-hexylphthalat (DnHP)
Diisohexylphthalat (DIHP)	n-Pentyl-isopentylphthalat (nPiP)
1,2-Benzenedicarboxylic acid, di-C-17, branched and linear alkyl esters (DUP), (DHNUP)	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear, DiPP, nPiP

**Part 4: Heavy metals**
**Methods:**

Total digestion acc. ASU K 84.00.29:2016-07; ICP-OES analysis DIN EN IOS 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): 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>Metal</b>	<b>Limit</b>
Mercury	0.5 ppm
Nickel	5 ppm
Organometallic tin	0.5 ppm
Antimony	0.5 ppm
Arsenic	0.5 ppm
Barium**	500 ppm
Cadmium	0.5 ppm
Chromium as Cr(VI)	0.5 ppm
Cobalt	0.5 ppm
Copper**	250 ppm
Zinc**	2000 ppm
Lead	0.7 ppm
Selenium	2 ppm

\*\*soluble

**Part 5: Polyaromatic hydrocarbons**

Method: AFPS GS 2019:01 PAK, extraction in toluene

Limit: 0.5 ppm / BaP 5 ppb;

limit of quantitation: 0.5 ppm / BaP 5 ppb

Naphthalene	Acenaphthalene	Acenaphthene
Fluorene	Phenanthrene	Anthracene
Fluoranthene	Pyrene	Benzo[ <i>a</i> ]anthracene
Chrysene	Benzo[ <i>b</i> ]fluoranthene	Benzo[ <i>k</i> ]fluoranthene
Benzo[ <i>a</i> ]pyrene	Dibenzo[ <i>ah</i> ]anthracene	Indeno[1,2,3, <i>cd</i> ]pyrene
Benzo[ <i>ghi</i> ]perylene	Benzo[ <i>j</i> ]fluoranthene	Benzo[ <i>e</i> ]pyrene
Cyclopenta[ <i>cd</i> ]pyrene	Dibenzo[ <i>al</i> ]pyrene	Dibenzo[ <i>ae</i> ]pyrene
Dibenzo[ <i>ai</i> ]pyrene	Dibenzo[ <i>ah</i> ]pyrene	1-Methylpyrene
Benzo[ <i>c</i> ]fluorene	5-Methylchrysene	

**Part 6: Sterility**

(microbiological test)

Limit of quantitation: &lt; 10 CFU/g

Test conducted by an accredited external laboratory.

Spores of aerobes spore-forming, quantitative*	In-house method
Spores of anaerobes spore-forming, quantitative*	In-house method
Bacillus cereus presumptive, quantitative	§64 LFGB 00.00-33, mod.
Sulphite reducing clostridia, quantitative	§64 LFGB 06.00-39, mod.
Total viable count, aerobes mesophil 30°C	§64 LFGB 00.00-88/2, mod.
Total viable count, anaerobes mesophil 30°C*	In-house method
Pseudomonas sp., quantitative	§64 LFGB 06.00-43, mod.

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**Comment:**

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

 Yours sincerely,  
 CTL® GmbH Bielefeld



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 Representative for tattoo products



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