



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.



INTENZE Products Austria GmbH

 Mr Hernesz
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 AUSTRIA

 CTL®-no. 400363
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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 |

| | |
|------------------------------|--|
| CTL no 400363/1 | |
| Sample identification | 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 |

| | |
|---|---------------|
| 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 |

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

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)benzothiozol (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 |

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 GEN ISO/TS 16179:2012-12

Limit of quantitation: equal or below the limit respectively.

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

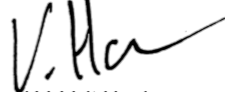
Comment:

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

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| | | | | | |
|-------------------------|--|-------------|--------------------------|-------------|--|
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| [Registered office in] | Bielefeld | [Homepages] | ctl-bielefeld.de | [IBAN] | DE 87 47850065 000 4005345 |
| [Register of Companies] | AG Bielefeld, HRB 35-412 | [Homepages] | tattooab.eu | | |
| [VAT ID No] | DE 176 26 5000 | | | | |

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 |

 The denoted results are only valid for the tested sample.
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| CTL no 400362/1 | |
|------------------------------|---|
| Sample identification | Carbon Black Dispersion (CI 77266), Formulation B |
| Ingredients | |
| 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 |

| CTL no 400362/2 | |
|------------------------------|---|
| Sample identification | Blue 15 Base Dispersion (CI74160) Formulation B |
| Ingredients | |
| 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 |

| 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 | |
|------------------------------|---|
| Sample identification | 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 |

| 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 400362/5 | |
|------------------------------|--|
| Sample identification | 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 |

| 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 |

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

| CTL no 400362/6 | |
|---|---|
| Sample identification | 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 |
| 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 |

| 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-Naphthylamine** |
| 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)benzothiozol (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 |

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.

| Metal | Limit |
|--------------------|----------|
| 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 |
| Benz[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: < 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. |

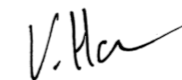
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|-------------------------|--|-------------|-----------------------------------|-------------|--|
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| [Register of Companies] | AG Bielefeld, HRB 35-412 | | | | |
| [VAT ID No] | DE 176 26 5000 | | | | |

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

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| | | | | | |
|-------------------------|--|-------------|-----------------------------------|-------------|--|
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