



CTL® GmbH | Chemical-Technological Laboratory  
Krackser Straße 12 | 33659 Bielefeld | Germany

**WORLD FAMOUS TATTOO INK**  
460A Greenway Industrial Drive  
Fort Mill, SC 29708  
USA

CTL®-No **385573+385792+387036**

[Order date]

[Date received]

[Service date] **03.12.2018**


**tattoolab.eu**

**Certificate**

[Article] **Permanent cosmetic pigment**  
[Brand] **World Famous Tattoo Ink**  
[Colour/product code] **H / WFPMH**  
[Test] **Sterility acc. to CoE Resolution ResAP(2008)1; ASU §64 LFGB L59.00-4;- L06.00-18: Part 5  
tested on a single representative sample**

| <b>Part 5<br/>Testing of sterility<br/>Detection limit: 1.0 x 10<sup>1</sup> CFU/g</b>                        |  |
|---|--|
|   | <b>Results</b>                         |
| <b>Microbiological test:<br/>pseudomonads = King A, King B,<br/>Oxidase test acc. to CoE<br/>ResAP(2008)1</b> | <b>&lt; 1.0 x 10<sup>1</sup> CFU/g</b> |
| <b>Anaerobes sulfite-reducing<br/>sporulating bacteria acc. to ASU<br/>§64 LFGB L59.00-4</b>                  | <b>&lt; 1.0 x 10<sup>1</sup> CFU/g</b> |
| <b>Aerobes mesophilic sporulating<br/>bacteria acc. to ASU §64 LFGB<br/>L06.00-18</b>                         | <b>&lt; 1.0 x 10<sup>1</sup> CFU/g</b> |

**BIELEFELD, 03. DECEMBER 2018**

  
**Helmut Meyer (lab manager)**

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[Article] Permanent cosmetic pigment  
[Brand] World Famous Tattoo Ink  
[Colour/product code] H / WFPMH  
[Test] PAH and BaP acc. to CoE Resolution ResAP(2008)1: Part 4

| Part 4<br>Testing of Polycyclic Aromatic Hydrocarbons (PAH) and Benzo-a-Pyrene (BaP)<br>according to CoE Resolution ResAP(2008)1<br>Detection limit: PAH: 0.05 ppm as total; Benzo-a-pyrene: 0.5 ppb<br>Limit: PAH: 0.5 ppm as total; Benzo-a-pyrene: 5 ppb |                      | EPA, ZEK 2008-01 |                        |
|---|----------------------|------------------|------------------------|
| Amount (ppm)  | Elements or compound | Amount (ppm)     | Elements or compound   |
| ---   | Naphthalene          | ---              | Benz(a)anthracene      |
| ---   | Acenaphthylene       | ---              | Chrysene               |
| ---   | Acenaphthene         | ---              | Benzo(b)fluoranthene   |
| ---   | Fluorene             | ---              | Benzo(k)fluoranthene   |
| ---   | Phenanthrene         | ---              | Dibenzo(a,h)anthracene |
| ---   | Anthracene           | ---              | Indo (1,2,3-cd)pyrene  |
| ---   | Fluoranthene         | ---              | Benzo(g,h,i)perylene   |
| ---   | Pyrene               | ---              | Benzo-a-pyrene (BaP)   |

**Result as total: all below detection limit**

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(---) = below detection limit

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### Certificate

[Article] **Permanent cosmetic pigment**  
[Brand] **World Famous Tattoo Ink**  
[Colour/product code] **H / WFPMH**  
[Test] **Heavy Metals acc. to CoE Resolution ResAP(2008)1: Part 3**

| <b>Part 3</b><br>Testing of heavy metals according to CoE Resolution ResAP(2008)1 |                      |             |                       | <b>Method: Prior, G. (2014). Tattoo Inks: Analysis, Pigments, Legislation.</b><br><b>Berlin: epubli. CTL method 2, p. 83.</b> |                      |                                  |                       |
|---|----------------------|-------------|-----------------------|---|----------------------|----------------------------------|-----------------------|
| Amount (ppm)  | Elements or compound | Limit (ppm) | Detection limit (ppm) | Amount (ppm)  | Elements or compound | Limit (ppm)                      | Detection limit (ppm) |
| < 1   | Arsenic (As)         | ≤ 2         | 1                     | < 0.1   | Nickel (Ni)          | As low as technically achievable | 0.1                   |
| < 5   | Barium (Ba)          | ≤ 50        | 5                     | < 1   | Lead (Pb)            | ≤ 2                              | 1                     |
| < 0.1   | Cadmium (Cd)         | ≤ 0.2       | 0.1                   | < 1   | Selenium (Se)        | ≤ 2                              | 1                     |
| < 5   | Cobalt (Co)          | ≤ 25        | 5                     | < 1   | Antimony (Sb)        | ≤ 2                              | 1                     |
| < 0.1   | Chromium (Cr), VI    | ≤ 0.2       | 0.1                   | < 5   | Tin (Sn)             | ≤ 50                             | 5                     |
| < 5   | Copper (Cu), soluble | ≤ 25        | 5                     | < 5   | Zinc (Zn)            | ≤ 50                             | 5                     |
| < 0.1   | Mercury (Hg)         | ≤ 0.2       | 0.1                   |   |                      |                                  |                       |

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**Certificate**

[Article] **Tattoo colour**  
[Brand] **World Famous Tattoo Ink**  
[Colour/product code] **H / WFPMH**  
[Test] **Dyestuffs acc. to CoE Resolution ResAP(2008)1: Part 2**

| Part 2<br>Testing of dyestuffs according to CoE Resolution ResAP(2008)1<br>Detection limit: 5 mg/l |                   |       |            | DIN 54231 in the up-to-date legislation<br>GC/MS analysis<br>HPLC analysis<br>TLC analysis |                    |         |            |
|--|-------------------|-------|------------|--|--------------------|---------|------------|
| Amount (ppm)   | Colourant         | CI no | CAS no     | Amount (ppm)   | Colourant          | CI no   | CAS no     |
| ---  | Acid Green 16     | 44025 | 12768-78-4 | ---  | Disperse Orange 37 |         | 12223-33-5 |
| ---  | Acid Red 26       | 16150 | 3761-53-3  | ---  | Disperse Red 1     | 11110   | 2872-52-8  |
| ---  | Acid Violet 17    | 42650 | 4129-84-4  | ---  | Disperse Red 17    | 11210   | 3179-89-3  |
| ---  | Acid Violet 49    | 42640 | 1694-09-3  | ---  | Disperse Yellow 3  | 11855   | 2832-40-8  |
| ---  | Acid Yellow 36    | 13065 | 587-98-4   | ---  | Disperse Yellow 9  | 10375   | 6373-73-5  |
| ---  | Basic Blue 7      | 42595 | 2390-60-5  | ---  | Pigment Orange 5   | 12075   | 3468-63-1  |
| ---  | Basic Green 1     | 42040 | 633-03-4   | ---  | Pigment Red 53     | 15585   | 2092-56-0  |
| ---  | Basic Red 1       | 45160 | 989-38-8   | ---  | Pigment Violet 3   | 42535:2 | 1325-82-2  |
| ---  | Basic Red 9       | 42500 | 569-61-9   | ---  | Pigment Violet 39  | 42555:2 | 64070-98-0 |
| ---  | Basic Violet 1    | 42535 | 8004-87-3  | ---  | Solvent Blue 35    | 61554   | 17354-14-2 |
| ---  | Basic Violet 10   | 45170 | 81-88-9    | ---  | Solvent Orange 7   | 12140   | 3118-97-6  |
| ---  | Basic Violet 3    | 42555 | 548-62-9   | ---  | Solvent Red 24     | 26105   | 85-83-6    |
| ---  | Disperse Blue 1   | 64500 | 2475-45-8  | ---  | Solvent Red 49     | 45170:1 | 509-34-2   |
| ---  | Disperse Blue 106 |       | 12223-01-7 | ---  | Solvent Violet 9   | 42555:1 | 467-63-0   |
| ---  | Disperse Blue 124 |       | 61951-51-7 | ---  | Solvent Yellow 1   | 11000   | 60-09-3    |
| ---  | Disperse Blue 3   | 61505 | 2475-46-9  | ---  | Solvent Yellow 2   | 11020   | 60-11-7    |
| ---  | Disperse Blue 35  |       | 12222-75-2 | ---  | Solvent Yellow 3   | 11160   | 97-56-3    |
| ---  | Disperse Orange 3 | 11005 | 730-40-5   |  |                    |         |            |

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[Article] **Tattoo colour**  
[Brand] **World Famous Tattoo Ink**  
[Colour/product code] **H / WFPMH**  
[Test] **Aromatic amines and carcinogens acc. to CoE Resolution ResAP(2008)1: Part 1a, Part 1b**

| Part 1a<br>Testing of aromatic amines with carcinogenic, mutagenic, reprotoxic and sensitising properties according to CoE Resolution ResAP(2008)1<br>Detection limit: 1 ppm; limit: as low as technically avoidable                    |                              |           |          | DIN EN 14362, § 64 LFGB 82.02-2,3,4,9<br>GC/MS analysis<br>HPLC analysis |                                     |            |             |
|---|------------------------------|-----------|----------|--|-------------------------------------|------------|-------------|
| Amount (ppm)  | Amine                        | EC no     | CAS no   | Amount (ppm)   | Amine                               | EC no      | CAS no      |
| —   | Biphenyl-4-ylamine           | 202-177-1 | 92-67-1  | —  | 3,3'-Dimethoxybenzidine             | 204-355-4  | 119-90-4    |
| —   | Benzidine                    | 202-199-1 | 92-87-5  | —  | 3,3'-Dimethylbenzidine              | 204-358-0  | 119-93-7    |
| —   | 4-Chloro-o-toluidine         | 202-411-6 | 95-69-2  | —  | 4,4'-Methylenedi-o-toluidine        | 212-658-8  | 838-88-0    |
| —   | 2-Naphthylamine              | 202-080-4 | 91-59-8  | —  | 6-Methoxy-m-toluidine               | 204-419-1  | 120-71-8    |
| —   | o-Aminoazotoluene            | 202-591-2 | 97-56-3  | —  | 4,4'-Methylenebis-(2-chloroaniline) | 202-918-9  | 101-14-4    |
| —   | 5-Nitro-o-toluidine          | 202-765-8 | 99-55-8  | —  | 4-Methyl-m-phenylenediamine         | 202-453-1  | 95-80-7     |
| —   | 4-Chloroaniline              | 203-401-0 | 106-47-8 | —  | o-Anisidine                         | 201-963-1  | 90-04-0     |
| —   | 4-Methoxy-m-phenylenediamine | 210-406-1 | 615-05-4 | —  | 4-Aminoazobenzene                   | 200-453-6  | 60-09-3     |
| —   | 4,4'-Methylenedianiline      | 202-974-4 | 101-77-9 | —  | 6-Amino-2-ethoxynaphthaline         | —          | 293733-21-8 |
| —   | 3,3'-Dichlorobenzidine       | 202-109-0 | 91-94-1  | —  | 4-Amino-3-fluorophenol              | 418-230-9  | 399-95-1    |
| Part 1b<br>Testing 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<br>Detection limit: 1 ppm |                              |           |          | DIN EN 14362, § 64 LFGB 82.02-2,3,4,9<br>GC/MS analysis<br>HPLC analysis |                                     |            |             |
| Amount (ppm)  | Amine                        | EC no     | CAS no   | Amount (ppm)   | Amine                               | EC no      | CAS no      |
| —   | 4,4'-Oxydianiline            | 202-977-0 | 101-80-4 | —  | Para-phenylenediamine               | 2003-404-7 | 106-50-3    |
| —   | 4,4'-Thiodianiline           | 205-370-9 | 139-65-1 | —  | 2,4 Xylidine                        | —          | 95-68-1     |
| —   | o-Toluidine                  | 202-429-0 | 95-53-4  | —  | 2,6 Xylidine                        | —          | 87-62-7     |
| —   | 2,4,5-Trimethylaniline       | 205-282-0 | 137-17-7 |  |                                     |            |             |

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