



**CTL® GmbH**  
CHEMICAL TECHNOLOGICAL LABORATORY

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] World Famous Mid-tone Greywash / WFMTGW  
[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*

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

BIELEFELD, 03. DECEMBER 2018

  
Helmut Meyer (lab manager)

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[Article] Permanent cosmetic pigment  
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[Colour/product code] World Famous Mid-tone Greywash / WFMTGW  
[Test] PAH and BaP acc. to CoE Resolution ResAP(2008)1: Part 4

| <b>Part 4</b><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 |                      | <b>EPA, ZEK 2008-01</b> |                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------|------------------------|
| Amount<br>(ppm)                                                                                                                                                                                                                                                    | Elements or compound | Amount<br>(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**

**BIELEFELD, 03. DECEMBER 2018**

  
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[Article]                      Permanent cosmetic pigment  
[Brand]                      World Famous Tattoo Ink  
[Colour/product code]      World Famous Mid-tone Greywash / WFMTGW  
[Test]                      Heavy Metals acc. to CoE Resolution ResAP(2008)1: Part 3

| Part 3<br>Testing of heavy metals according to CoE Resolution<br>ResAP(2008)1 |                         |                |                          | Method: Prior, G. (2014). Tattoo Inks: Analysis, Pigments,<br>Legislation.<br>Berlin: epubli. CTL method 2, p. 83. |                         |                                     |                          |
|-------------------------------------------------------------------------------|-------------------------|----------------|--------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------------------|--------------------------|
| Amount<br>(ppm)                                                               | Elements or<br>compound | Limit<br>(ppm) | Detection limit<br>(ppm) | Amount<br>(ppm)                                                                                                    | Elements or<br>compound | Limit<br>(ppm)                      | Detection limit<br>(ppm) |
| < 1                                                                           | Arsenic (As)            | ≤ 2            | 1                        | < 0.1                                                                                                              | Nickel (Ni)             | As low as technically<br>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] **World Famous Mid-tone Greywash / WFMTGW**  
[Test] **Dyestuffs acc. to CoE Resolution ResAP(2008)1: Part 2**

| <b>Part 2</b><br>Testing of dyestuffs according to CoE Resolution ResAP(2008)1<br>Detection limit: 5 mg/l |                   |       |            | <b>DIN 54231 in the up-to-date legislation</b><br>GC/MS analysis<br>HPLC analysis<br>TLC analysis |                    |         |            |
|-----------------------------------------------------------------------------------------------------------|-------------------|-------|------------|---------------------------------------------------------------------------------------------------|--------------------|---------|------------|
| Amount<br>(ppm)                                                                                           | Colourant         | CI no | CAS no     | Amount<br>(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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## Certificate

[Article] Tattoo colour  
[Brand] World Famous Tattoo Ink  
[Colour/product code] World Famous Mid-tone Greywash / WFMTGW  
[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-ethoxynaphthalene         | ---        | 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 Xyldine                         | ---        | 95-68-1     |
| ---                                                                                                                                                                                                                                     | o-Toluidine                  | 202-429-0 | 95-53-4  | ---                                                                      | 2,6 Xyldine                         | ---        | 87-62-7     |
| ---                                                                                                                                                                                                                                     | 2,4,5-Trimethylaniline       | 205-282-0 | 137-17-7 |                                                                          |                                     |            |             |

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