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[Order date] ---  
[Date received] ---  
[Service date] 25.01.2019  
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## Certificate

[Article] Tattoo colour  
[Brand] Eternal Ink  
[Colour/product code] DARKEST GRAY WASH / GW05  
[Test] Aromatic amines and carcinogens acc. to CoE Resolution ResAP(2008)1: Part 1a, Part 1b

| Part 1a  |                              |           |          | DIN EN 14362, § 64 LFGB 82.02-2,3,4,9 |                                     |            |             |
|--|------------------------------|-----------|----------|---------------------------------------|-------------------------------------|------------|-------------|
| 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                    |                              |           |          | 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  |                              |           |          | DIN EN 14362, § 64 LFGB 82.02-2,3,4,9 |                                     |            |             |
| 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 |                              |           |          | 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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Helmut Meyer (Lab manager)

(---) = below detection limit

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## Certificate

[Article] Tattoo colour  
[Brand] Eternal Ink  
[Colour/product code] DARKEST GRAY WASH / GW05  
[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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**Certificate**

[Article] Tattoo colour  
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 [Colour/product code] DARKEST GRAY WASH / GW05  
 [Test] Heavy Metals acc. to CoE Resolution ResAP(2008)1: Part 3

| Part 3<br>Testing of heavy metals according to CoE Resolution ResAP(2008)1 |                      |             |                       | Method: Prior, G. (2014). Tattoo Inks: Analysis, Pigments, Legislation.<br>Berlin: epubli. CTL method 2, p. 83. |                      |                                  |                       |
|--|----------------------|-------------|-----------------------|---|----------------------|----------------------------------|-----------------------|
| 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] Eternal Ink  
 [Colour/product code] DARKEST GRAY WASH / GW05  
 [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 (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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**Certificate**

[Article] Tattoo colour

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[Colour/product code] DARKEST GRAY WASH / GW05

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

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