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| Request Number | Not Applicable |
| Receipt Number | 22/2371 |
| Receipt date | 26/01/22 |
| Test begin - end date | 26/01/22 - 01/02/22 |
| Document issued on | 01/02/22 |

SAMPLE IDENTIFICATION (#):
A Crimson Red. VIKING BY DYNAMIC
THIS DOCUMENT CONTAINS THE FOLLOWING TESTS:

| Code | Test | Test Method |
|----------|---|---|
| CE0038 | Tattoos inks and PMU: determination of heavy metals (reg. UE 2020/2081) | MIP_CE0038_rev1:2021 |
| CE0073 * | Tattoos Inks and PMU: determination of certain aromatic amines | MIP_CE0073_rev0:2021 - ref. Reg. (EU) 2020/2081 |
| CE0082 | Tattoo Inks, PMU and polymers: Determination of Polycyclic Aromatic Hydrocarbon | AfPS GS 2019:01 |

General Remarks

Results refer exclusively to the materials presented by the Client as received; TIL does not carry out withdrawals and / or samplings and, therefore, any representativeness of the analyzed material, also with respect to lots, is exclusive responsibility of the customer.

(#) Data provided by the Client. Moreover, when information is provided by the Client and can influence the validity of the results, the Laboratory declines all responsibilities.

The expanded uncertainty, available on request, is calculated with a coverage factor $k=2$ for a confidence level of 95%.

For qualitative tests, or tests where final result is assessed by numerical indexes, the expanded uncertainty is not applicable.

Materials delivered to TIL will be kept available to the Customer for a period of 3 (three) months after completion of the Services; after this period all materials will be disposed of by TIL.

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Decision rule

Unless otherwise requested by the customer, for physical-mechanical tests, flammability tests and fastness tests, Laboratory defines the Pass/Fail assessment not taking into account the uncertainty associated to the measurement result. Uncertainty of method is available on request.

For all other types of tests, where the decision rule is not defined within the test method, laboratory use a decision rule based on "guard band" approach. The rule is described in the "conformity analysis" procedure adopting a coverage factor K unilateral equal to 1,645 for a confidence level of 95%.

* Test not accredited by ACCREDIA

Technical Manager

Giuseppe Bartolini



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TEST REPORT N° 22/02517

pag. 2 di 5

Mod.018 Rev .2 del 19.10.2021

Begin of Test Report

CE0038 **Tattoos inks and PMU: determination of heavy metals (reg. UE 2020/2081)**

Test methods **MIP_CE0038_rev1:2021**

Rev. 0 del 06/04/2020

Testing conditions Total Metals: Acid digestion - microwave oven / Soluble metals: water extraction
Testing equipment ICP-MS / HPLC-DAD
Testing date 28/01/2022

Sample identification **Crimson Red. VIKING BY DYNAMIC**

| Heavy metals | | Results mg/kg | LOQ -Limit of quantification mg/kg | Concentrazione massima ammessa Regolamento UE 2020/2081 mg/kg |
|--------------|--------------------|------------------|--|--|
| As | Arsenic | < LOQ | 0,4 | 0,5 |
| Ba | Barium (soluble) | < LOQ | 0,4 | 500 |
| Cd | Cadmium | < LOQ | 0,4 | 0,5 |
| Co | Cobalt | < LOQ | 0,4 | 0,5 |
| Cr6 | Chromium VI | < LOQ | 0,3 | 0,5 |
| Cu | Copper (soluble) | 2,30 | 0,4 | 250 |
| Hg | Mercury | < LOQ | 0,4 | 0,5 |
| Ni | Nickel | < LOQ | 0,4 | 5 |
| Pb | Lead | < LOQ | 0,4 | 0,7 |
| Se | Selenium | < LOQ | 0,4 | 2 |
| Sb | Antimony | < LOQ | 0,4 | 0,5 |
| Sn | Organometallic tin | < LOQ | 0,4 | 0,5 |
| Zn | Zinc (soluble) | 2,51 | 0,4 | 2000 |

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TEST REPORT N° 22/02517

pag. 3 di 5

Mod.018 Rev .2 del 19.10.2021

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|--------------|---|
| CE0073 | Tattoos Inks and PMU: determination of certain aromatic amines |
| Test methods | MIP_CE0073_rev0:2021 - ref. Reg. (EU) 2020/2081 |

Rev. 0 del 06/04/2020

Testing conditions Amines classified as soluble: methanol extraction / others: buffer extraction with ref. to ISO 14362-1 / ISO 17234-1 and reductive cleavage
Testing equipment GC-MSMS / LC-MSMS
Testing date 28/01/2022

| | |
|-----------------------|---------------------------------------|
| Sample identification | Crimson Red. VIKING BY DYNAMIC |
|-----------------------|---------------------------------------|

| SUBSTANCE | CAS N. | Quantification Limit (LOQ) | Result |
|---|-----------------------|----------------------------|--------|
| <i>p</i> -Phenylenediamine (as soluble) | 106-50-3 | 1 mg/kg | < LOQ |
| 2,4,5-trimethylaniline (as soluble) | 137-17-7 / 21436-97-5 | 1 mg/kg | < LOQ |
| 2,4-xylidine | 95-68-1 | 1 mg/kg | < LOQ |
| 2,6-xylidine | 87-62-7 | 1 mg/kg | < LOQ |
| 2-naphtylamine (as soluble) | 91-59-8 / 553-00-4 | 1 mg/kg | < LOQ |
| 3,3'-dichlorobenzidine (as soluble) | 91-94-1 | 1 mg/kg | < LOQ |
| 4,4'-methylenedi-o-toluidine (as soluble) | 838-88-0 | 1 mg/kg | < LOQ |
| 3,3-dimethylbenzidine (as soluble) | 119-93-7 | 1 mg/kg | < LOQ |
| 3,3'-dimethoxybenzidine (as soluble) | 119-90-4 | 1 mg/kg | < LOQ |
| 4-methyl-m-phenylenediamine (as soluble) | 95-80-7 | 1 mg/kg | < LOQ |

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TEST REPORT N° 22/02517

pag. 4 di 5

Mod.018 Rev .2 del 19.10.2021

| | | | |
|--|--------------------------|---------|-------|
| 4,4'-methylene-bis-(2-chloro-aniline) (as soluble) | 101-14-4 | 1 mg/kg | < LOQ |
| 4,4'-oxydianiline (as soluble) | 101-80-4 | 1 mg/kg | < LOQ |
| 4,4'-thiodianiline (as soluble) | 139-65-1 | 1 mg/kg | < LOQ |
| 4-aminobiphenyl (as soluble) | 92-67-1 | 1 mg/kg | < LOQ |
| 4-aminoazobenzene (as soluble) | 60-09-3 | 1 mg/kg | < LOQ |
| 4-chloroaniline (as soluble) | 106-47-8 | 1 mg/kg | < LOQ |
| 4-chloro-o-toluidine (as soluble) | 95-69-2 / 3165-93-3 | 1 mg/kg | < LOQ |
| 4,4'-diaminodiphenylmethane (as soluble) | 101-77-9 | 1 mg/kg | < LOQ |
| 4-methoxy-m-phenylenediamine (as soluble) | 615-05-4 / 39156-41-7 | 1 mg/kg | < LOQ |
| 5-nitro-o-toluidine (as soluble) | 99-55-8 | 1 mg/kg | < LOQ |
| Aniline (as soluble) | 62-53-3 | 1 mg/kg | < LOQ |
| benzidine (as soluble) | 92-87-5 | 1 mg/kg | < LOQ |
| o-aminoazotoluene (as soluble) | 97-56-3 | 1 mg/kg | < LOQ |
| o-anisidine (as soluble) | 90-04-0 | 1 mg/kg | < LOQ |
| o-toluidine (as soluble) | 95-53-4 | 1 mg/kg | < LOQ |
| p-cresidine (as soluble) | 120-71-8 | 1 mg/kg | < LOQ |
| 4-amino-3-fluorophenol (as soluble) | 399-95-1 | 1 mg/kg | < LOQ |
| 6-amino-2-ethoxynaphthalene | 293733-21-8 | 1 mg/kg | < LOQ |
| 2-methyl-p-phenylenediamine (as soluble) | 95-70-5 | 1 mg/kg | < LOQ |
| sulfanilic acid (as soluble) | 121-57-3 | 1 mg/kg | < LOQ |
| p-Toluidine (as soluble) | 106-49-0 | 1 mg/kg | < LOQ |

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| | |
|--------------|--|
| CE0082 | Tattoo Inks, PMU and polymers: Determination of Polycyclic Aromatic Hydrocarbon |
| Test methods | AfPS GS 2019:01 |

Rev. 0 del 06/04/2020

Testing conditions organic solvent extraction - ultrasonic bath
 Testing equipment GC-MSMS
 Testing date 01/02/2022

| | |
|-----------------------|---------------------------------------|
| Sample identification | Crimson Red. VIKING BY DYNAMIC |
|-----------------------|---------------------------------------|

| SUBSTANCE | CAS N. | Quantification Limit (LOQ) | Result |
|-------------------------|----------|----------------------------|--------|
| Naphtalene | 91-20--3 | 0,05 mg/kg | < LOQ |
| Acenaphthylene | 208-96-8 | 0,05 mg/kg | < LOQ |
| Acenaftene | 83-32-9 | 0,05 mg/kg | < LOQ |
| Fluorene | 86-73-7 | 0,05 mg/kg | < LOQ |
| Phenanthrene | 85-01-8 | 0,05 mg/kg | < LOQ |
| Anthracene | 120-12-7 | 0,05 mg/kg | < LOQ |
| Fluoranthene | 206-44-0 | 0,05 mg/kg | < LOQ |
| Pyrene | 129-00-0 | 0,05 mg/kg | < LOQ |
| Crysene | 218-01-9 | 0,05 mg/kg | < LOQ |
| Benzo(a)Anthracene | 56-55-3 | 0,05 mg/kg | < LOQ |
| Benzo[b]fluoranthene | 205-99-2 | 0,05 mg/kg | < LOQ |
| Benzo[k]Fluoranthene | 207-08-9 | 0,05 mg/kg | < LOQ |
| Benzo[e]Pyrene | 192-97-2 | 0,05 mg/kg | < LOQ |
| Benzo(a)Pyrene | 50-32-8 | 0,005 mg/kg | < LOQ |
| Perylene | 198-55-0 | 0,05 mg/kg | < LOQ |
| Indeno(1,2,3-cd)Pyrene | 193-39-5 | 0,05 mg/kg | < LOQ |
| Dibenzo(a,h) Anthracene | 53-70-3 | 0,05 mg/kg | < LOQ |
| Benzo(g,h,i)Perylene | 191-24-2 | 0,05 mg/kg | < LOQ |
| Dibenzo(a,l)Pyrene | 191-30-0 | 0,05 mg/kg | < LOQ |
| Dibenzo(a,e)Pyrene | 192-65-4 | 0,05 mg/kg | < LOQ |
| Dibenzo(a,i)Pyrene | 189-55-9 | 0,05 mg/kg | < LOQ |
| Dibenzo(a,h)Pyrene | 189-64-0 | 0,05 mg/kg | < LOQ |
| Benzo[j]fluoranthene | 205-82-3 | 0,05 mg/kg | < LOQ |
| Total amount | | | < LOQ |

End of Test Report

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