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Test begin - end date	18/11/21 - 24/11/21
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<p><u>ICL GLOBAL S.L</u> Calle Molino , 16 B Los Gallardos 04280 Almería</p>

SAMPLE IDENTIFICATION (#):

A ECLIPSE - TATTOO INK

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 and PMU - Determination of Polycyclic Aromatic Hydrocarbon (PAH)	AfPS GS 2019:01 - Reg. EU 2020/2081

TEST & INNOVATION LAB S.r.l. with single shareholder company
subject to the direction and coordination of KERING HOLLAND NV, company registered in the Netherlands with headquarters in Amsterdam



Lab Headquarters

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Registered Offices

Via Pisana, 336 - 50018 – Scandicci (FI)

Share Capital Euro 1.200.000,00 fully paid-in Company Register

of Florence - Tax ID and VAT code nr 07010880487

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

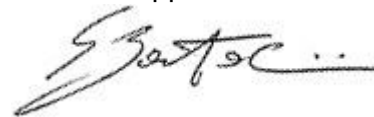
Unless otherwise requested by the customer, for physical-mechanical tests, flammability tests and fastness tests, Laboratory defines the Pass/Fail assessment not taking into account the uncertainty associated to the measurement result. Uncertainty of method is available on request.

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



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 24/11/2021

Sample identification		ECLIPSE - TATTOO INK		
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

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Co	Cobalt	< LOQ	0,4	0,5
Cr6	Chromium VI	< LOQ	0,3	0,5
Cu	Copper (soluble)	< LOQ	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)	< LOQ	0,4	2000

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 22/11/2021

Sample identification	ECLIPSE - TATTOO INK		
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 / 55300-4	1 mg/kg	< LOQ
3,3'-dichlorobenzidine (as soluble)	91-94-1	1 mg/kg	< LOQ
4,4'-methylenedi- <i>o</i> -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- <i>m</i> -phenylenediamine (as soluble)	95-80-7	1 mg/kg	< LOQ
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

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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

Note. LOQ: Limit of quantification

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CE0082	Tattoo Inks and PMU - Determination of Polycyclic Aromatic Hydrocarbon (PAH)
Test methods AfPS GS 2019:01 - Reg. EU 2020/2081	

Rev. 0 del 06/04/2020

Testing conditions organic solvent extraction - ultrasonic bath
Testing equipment GC-MSMS
Testing date 22/11/2021

Sample identification	ECLIPSE - TATTOO INK			
	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	0,05 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

Note. LOQ: Limit of quantification

ECLIPSE - TATTOO INK

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End of Test Report

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