

TECHNICAL REPORT

for
Bent-Erik Weiglin-Chrone
Scan-Hide A/S
 Industrivej 15
 Vester Skerninge
 DENMARK
 5762

Customer Order No:	-	Job Reference:	EFS624050046-CG-01
Supplied by:	Not Specified	Date Work Confirmed:	02/05/2024
Supplying to:	Not Specified	Date Completed:	16/05/2024

Testing to BLC-RSL 16302,16613,16617,16611b(WW),16618(WX)


The samples tested in this report have been assessed against the requirements of the specifications listed for the **SELECTED TESTS ONLY**. Statements of compliance against any specification relate exclusively to the sample tested as requested by the client and may not be representative of full specification testing:

Eurofins BLC | Restricted Substances Specification 2024 V1
&
Wet Blue / White

According to the requirements, the sample(s) were found to:

Not Comply

with the requirements of the above specification.

Additional comments/information (if relevant)

-



Louisa Smith
 Report Writer .



Gabriel Moran Malagon
 Analytical Team Leader .

DETAILS OF SAMPLE RECEIVED

Sample Reference	Description	Unique Reference/Identifier
A	BLC-RSL: 16302	16302
B	BLC-RSL: 16613	16613
C	BLC-RSL: 16617	16617
D	BLC-RSL: 16611b(WW)	16611-b(ww)
E	BLC-RSL: 16618(WX)	16618(wx)

TEST RESULT SUMMARY

Test	Method	Pass/Fail
Bisphenols	ISO 11936:2023	Pass
Chromium VI - After Heat Ageing	Heat Ageing followed by BS EN ISO 17075-2:2017 (80 ± 2)C and relative humidity less than 10% for 24 h, BS EN ISO 10195:2021 method A2	Pass
Dimethyl Fumarate - DMFU	BS EN ISO 16186:2021	Pass
Extractable Heavy Metals Screening	BS EN ISO 17072-1:2019	Pass
Formaldehyde	BS EN ISO 17226-1:2021	Pass
Fungicide Analysis	BS EN ISO 13365-1:2020	Fail
MCCP (C14-C17)	BS EN ISO 18219-2:2021	Pass
NPEO/NP/OPEO/OP in leather	BS EN ISO 18218-2:2019	Pass
pH	BS EN ISO 4045:2018	Pass
SCCP (C10-C13)	BS EN ISO 18219-1:2021	Pass
Total Digest Heavy Metals Screening	CPSC-CH-E1001-08.3 CPSC-CH-E1002-08.3 BS EN ISO 17072-2:2019 ASTM E1613-12 BS EN 16711-1:2015 CPSC-CH-E1003-09.1	Pass

TEST RESULTS

Chromium VI - After Heat Ageing

†Heat Ageing followed by BS EN ISO 17075-2:2017, (80 ± 2)C and relative humidity less than 10% for 24 h, BS EN ISO 10195:2021 method A2

Detection limit: 3 mg/kg

Test Component	Unit	Requirement	Uncertainty of Measurement ±	Sample A Result	Sample B Result	Sample C Result
Chromium (VI)	mg/kg	<3.0	10.2%	ND	ND	ND
Conclusion (Pass / Fail)				Pass	Pass	Pass

Test Component	Unit	Requirement	Uncertainty of Measurement ±	Sample D Result	Sample E Result
Chromium (VI)	mg/kg	<3.0	10.2%	ND	ND
Conclusion (Pass / Fail)				Pass	Pass

Dimethyl Fumarate - DMFU

BS EN ISO 16186:2021

Detection limit: 0.1 mg/kg

Test Component	Unit	Requirement	Uncertainty of Measurement ±	Sample A Result	Sample B Result	Sample C Result
Dimethyl fumarate (DMFu)	mg/kg	<0.1	23.3%	ND	ND	ND
Conclusion (Pass / Fail)				Pass	Pass	Pass

Test Component	Unit	Requirement	Uncertainty of Measurement ±	Sample D Result	Sample E Result
Dimethyl fumarate (DMFu)	mg/kg	<0.1	23.3%	ND	ND
Conclusion (Pass / Fail)				Pass	Pass

Extractable Heavy Metals Screening
BS EN ISO 17072-1:2019
Detection limit: Chromium (VI): 0.5 mg/kg, Mercury (Hg): 0.02 mg/kg, All others: 0.1 mg/kg

Test Component	Unit	Requirement	Uncertainty of Measurement ±	Sample A Result	Sample B Result	Sample C Result
Antimony (Sb)	mg/kg	<30	25.8%	ND	ND	ND
Arsenic (As)	mg/kg	<0.2	7.2%	ND	ND	ND
Barium (Ba)	mg/kg	<1000	6.6%	2.3	2.5	2.6
Cadmium (Cd)	mg/kg	<0.1	6.9%	ND	ND	ND
Chromium VI* (CrVI)	mg/kg	<1.0	8.6%	ND	ND	ND
Cobalt (Co)	mg/kg	Adults <4.0 Children <1.0	7.7%	0.58	0.36	0.22
Copper (Cu)	mg/kg	Adults <50 Children <25	7.2%	8.2	11	11
Lead (Pb)	mg/kg	Adults <1.0 Children <0.2	15.9%	0.32	0.14	0.20
Mercury (Hg)	mg/kg	<0.02	13.9%	ND	ND	ND
Nickel (Ni)	mg/kg	<1.0	7.5%	0.72	0.45	0.39
Selenium (Se)	mg/kg	<500	12.2%	ND	ND	ND
Conclusion (Pass / Fail)				Pass	Pass	Pass

Test Component	Unit	Requirement	Uncertainty of Measurement ±	Sample D Result	Sample E Result
Antimony (Sb)	mg/kg	<30	25.8%	ND	ND
Arsenic (As)	mg/kg	<0.2	7.2%	ND	ND
Barium (Ba)	mg/kg	<1000	6.6%	1.9	2.0
Cadmium (Cd)	mg/kg	<0.1	6.9%	ND	ND
Chromium VI* (CrVI)	mg/kg	<1.0	8.6%	ND	ND
Cobalt (Co)	mg/kg	Adults <4.0 Children <1.0	7.7%	0.12	ND
Copper (Cu)	mg/kg	Adults <50 Children <25	7.2%	7.3	10
Lead (Pb)	mg/kg	Adults <1.0 Children <0.2	15.9%	ND	ND
Mercury (Hg)	mg/kg	<0.02	13.9%	ND	ND
Nickel (Ni)	mg/kg	<1.0	7.5%	0.27	0.24
Selenium (Se)	mg/kg	<500	12.2%	ND	ND
Conclusion (Pass / Fail)				Pass	Pass

Formaldehyde

BS EN ISO 17226-1:2021

Detection limit: 1 mg/kg

Test Component	Unit	Requirement	Uncertainty of Measurement ±	Sample A Result	Sample B Result	Sample C Result
Formaldehyde	mg/kg	<20	5.7%	1.1	1.2	2.3
Conclusion (Pass / Fail)				Pass	Pass	Pass

Test Component	Unit	Requirement	Uncertainty of Measurement ±	Sample D Result	Sample E Result
Formaldehyde	mg/kg	<20	5.7%	2.7	4.4
Conclusion (Pass / Fail)				Pass	Pass

Fungicide Analysis

†BS EN ISO 13365-1:2020

Detection limit: 3-Iodo-2-propynylbutylcarbamate (IPBC): 60 mg/kg, All others: 2 mg/kg

Test Component	Unit	Requirement	Uncertainty of Measurement ±	Sample A Result	Sample B Result	Sample C Result
2-Phenylphenol (OPP)	mg/kg	<1000	10.6%	490	670	1400
Conclusion (Pass / Fail)				Pass	Pass	Fail

Test Component	Unit	Requirement	Uncertainty of Measurement ±	Sample D Result	Sample E Result
2-Phenylphenol (OPP)	mg/kg	<1000	10.6%	760	310
Conclusion (Pass / Fail)				Pass	Pass

MCCP (C14-C17)

BS EN ISO 18219-2:2021

Detection limit: 50 mg/kg

Test Component	Unit	Requirement	Uncertainty of Measurement ±	Sample A Result	Sample B Result	Sample C Result
Medium Chain Chlorinated Paraffins (C14-C17)	mg/kg	<1000 (sum)	13.7%	ND	ND	ND
Conclusion (Pass / Fail)				Pass	Pass	Pass

Test Component	Unit	Requirement	Uncertainty of Measurement ±	Sample D Result	Sample E Result
Medium Chain Chlorinated Paraffins (C14-C17)	mg/kg	<1000 (sum)	13.7%	ND	ND
Conclusion (Pass / Fail)				Pass	Pass

NPEO/NP/OPEO/OP in leather
BS EN ISO 18218-2:2019
Detection limit: 10 mg/kg

Test Component	Unit	Requirement	Uncertainty of Measurement ±	Sample A Result	Sample B Result	Sample C Result
4-Nonylphenol, branched (NP)	mg/kg	<100 (each and as a sum of NP+OP)	-	ND	ND	ND
4-Tert-octylphenol (OP)	mg/kg	<100 (each and as a sum of NP+OP)	-	ND	ND	ND
Nonylphenol ethoxylates (NPEO)	mg/kg	<100 (each and as a sum of NPEO+OPEO)	-	ND	ND	ND
Octylphenol ethoxylates (OPEO)	mg/kg	<100 (each and as a sum of NPEO+OPEO)	-	ND	ND	ND
Conclusion (Pass / Fail)				Pass	Pass	Pass

Test Component	Unit	Requirement	Uncertainty of Measurement ±	Sample D Result	Sample E Result
4-Nonylphenol, branched (NP)	mg/kg	<100 (each and as a sum of NP+OP)	-	ND	ND
4-Tert-octylphenol (OP)	mg/kg	<100 (each and as a sum of NP+OP)	-	ND	ND
Nonylphenol ethoxylates (NPEO)	mg/kg	<100 (each and as a sum of NPEO+OPEO)	-	ND	ND
Octylphenol ethoxylates (OPEO)	mg/kg	<100 (each and as a sum of NPEO+OPEO)	-	ND	ND
Conclusion (Pass / Fail)				Pass	Pass

pH

†BS EN ISO 4045:2018

Test Component	Unit	Requirement	Uncertainty of Measurement ±	Sample A Result	Sample B Result	Sample C Result
pH	-	3.2 – 3.9	±0.24	3.40	3.40	3.50
delta pH	-	<0.7	-	0.50	0.40	0.45
Conclusion (Pass / Fail)				Pass	Pass	Pass

Test Component	Unit	Requirement	Uncertainty of Measurement ±	Sample D Result	Sample E Result
pH	-	3.5 – 7.5	±0.24	3.85	4.70
delta pH	-	<0.7	-	0.35	0.20
Conclusion (Pass / Fail)				Pass	Pass

SCCP (C10-C13)

BS EN ISO 18219-1:2021

Detection limit: 50 mg/kg

Test Component	Unit	Requirement	Uncertainty of Measurement ±	Sample A Result	Sample B Result	Sample C Result
Short Chain Chlorinated Paraffins (C10-C13)	mg/kg	<1000 (sum)	14.9%	ND	ND	ND
Conclusion (Pass / Fail)				Pass	Pass	Pass

Test Component	Unit	Requirement	Uncertainty of Measurement ±	Sample D Result	Sample E Result
Short Chain Chlorinated Paraffins (C10-C13)	mg/kg	<1000 (sum)	14.9%	ND	ND
Conclusion (Pass / Fail)				Pass	Pass

Total Digest Heavy Metals Screening

†CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3, BS EN ISO 17072-2:2019, ASTM E1613-12, BS EN 16711-1:2015, CPSC-CH-E1003-09.1

Detection limit: 0.1 mg/kg

Test Component	Unit	Requirement	Uncertainty of Measurement ±	Sample A Result	Sample B Result	Sample C Result
Arsenic (As)	mg/kg	<20	3.5%	ND	ND	ND
Cadmium (Cd)	mg/kg	<20	2.5%	4.1	3.5	4.0
Lead (Pb)	mg/kg	<20	3.4%	ND	0.12	ND
Mercury (Hg)	mg/kg	<20	2.7%	ND	ND	ND
Conclusion (Pass / Fail)				Pass	Pass	Pass

Test Component	Unit	Requirement	Uncertainty of Measurement ±	Sample D Result	Sample E Result
Arsenic (As)	mg/kg	<20	3.5%	ND	ND
Cadmium (Cd)	mg/kg	<20	2.5%	3.5	3.7
Lead (Pb)	mg/kg	<20	3.4%	ND	ND
Mercury (Hg)	mg/kg	<20	2.7%	ND	ND
Conclusion (Pass / Fail)				Pass	Pass

Bisphenols

ISO 11936:2023

Test Component	Unit	Requirement	Uncertainty of Measurement ±	Sample A Result	Sample B Result	Sample C Result
Bisphenol A	mg/kg	<1000	-	ND	ND	ND
Bisphenol AF	mg/kg	<1000	-	ND	ND	ND
Bisphenol B	mg/kg	<1000	-	ND	ND	ND
Bisphenol D	mg/kg	<1000	-	ND	ND	ND
Bisphenol F	mg/kg	<1000	-	ND	ND	ND
Bisphenol S	mg/kg	<1000	-	2.9	ND	ND
Conclusion (Pass / Fail)				Pass	Pass	Pass

Test Component	Unit	Requirement	Uncertainty of Measurement ±	Sample D Result	Sample E Result
Bisphenol A	mg/kg	<1000	-	ND	ND
Bisphenol AF	mg/kg	<1000	-	ND	ND
Bisphenol B	mg/kg	<1000	-	ND	ND
Bisphenol D	mg/kg	<1000	-	ND	ND
Bisphenol F	mg/kg	<1000	-	ND	ND
Bisphenol S	mg/kg	<1000	-	1.7	2.5
Conclusion (Pass / Fail)				Pass	Pass

Uncertainty of Measurement and Decision Rules

A non-binary simple acceptance decision rule based on guard bands has been used as the decision rule. The guard band is equal to the expanded standard deviation stated in the test result table. When the difference between the test result and the requirement is less than or equal to the expanded uncertainty of measurement, then a risk of false acceptance or false rejection is possible. The risk of false acceptance or false rejection is 2.5% based on a conformance probability of 97.5%.

STANDARD TECHNICAL NOTES

(All may not be applicable)

Terms and Conditions	Our Terms and Conditions of Testing can be found at www.blcleathertech.com
†	Tests within the scope of accreditation. Test without † are not UKAS accredited.
Sampling Location	Unless specified in the test report, sample was taken from the official sampling location according to †BS EN ISO 2418:2017. If the sample was supplied as a swatch from the customer, sampling according to †BS EN ISO 2418:2017 is not possible.
SC	Test performed by a competent, Eurofins BLC approved partner laboratory
I/S	Insufficient Sample was submitted to perform the test
Opinions	Any opinions and interpretations expressed in this test report are based on current knowledge and experience and fall outside of the scope of ISO 17025 accreditation
Sample disposal	Stable samples will be disposed of after 6 weeks unless otherwise instructed. All other samples will be disposed of on completion of testing
ND	None Detected (detection limits are included with the test results)
Conditioning	Where necessary, the sample was conditioned and tested at 23°C ± 2°C and 50% ± 5% RH as specified in the reference standard atmosphere requirements of BS EN ISO 2419:2012 (leather) or in the alternative specific standard atmosphere requirements of BS EN ISO 139:2005+A1:2011 (textile).
Composite analysis	If the result multiplied by the number of composited samples exceeds the requirement, then testing of the individual samples may be performed or recommended.
Azo dyes analysis	Accreditation excludes: 2,4-Diaminoanisole
Chemical Analysis	Certain tests such as: Phthalates, Carcinogenic dyes, Allergenic disperse dyes, PAHs, Azo dyes, Organotins, Nitrosamines and Pesticides have multiple elements tested. For a full list of chemicals tested within these analyses please refer to the specification cited within this report. For further information contact info@blcleathertech.com
Decision Rule and Uncertainty of Measurement	Unless requested, the Eurofins BLC's decision rule and estimated uncertainties of measurement will be used. For further information, please visit Conformity and Uncertainty of Measurement in Testing (blcleathertech.com)