

Laboratory Test Report

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Prepared for: Reay Clarke
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Unit 9, Union Business park, Keighley Road
Skipton

Sample described as: GALAXY DK

Number of samples: 4

Date received: 18/07/2023

Packaging: Supplied with attached labelling
Condition: visibly undamaged condition.

Batch: N/S

Description: Galaxy DK- Regal
Galaxy DK- Merlot
Galaxy DK- Antique Gold
Galaxy DK- Venus

Reference number(s): 3422, 3421, 3479, 682

Date(s) tested: 18/07/2023 - 28/07/2023

Declared age: N/S

Tested age grade: N/A

PO/Order number: N/S

Photo of submitted sample



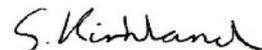
Prepared by



Mathew Boddy, Analytical Lab Supervisor

For and on behalf of

Eurofins MTS Consumer Product Testing UK Ltd



Gareth Kirkland, Technical Services Manager

Date: 28/07/2023

The results herein relate only to the items tested. This report is issued in accordance with Eurofins MTS Consumer Product Testing UK Ltd's terms and conditions which are available on request.



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TEST RESULT SUMMARY	
Test requested	Result
EN 71-3:2019 + A1:2021 – Migration of Certain Elements (Partial)	PASS

Only 18 of the 19 elements were reported on, full compliance with EN 71-3 cannot be inferred without chromium VI analyses.

COMPONENT BREAKDOWN LIST:

Test Item	Component description	Material
A	GALAXY DK	
A1	Merlot sequins	Category III
A2	Merlot yarn	Category III
A3	Antique sequins	Category III
A4	Antique yarn	Category III
A5	Venus sequins	Category III
A6	Venus yarn	Category III
A7	Regal sequins	Category III
A8	Regal yarn	Category III

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TEST RESULTS

EN 71-3:2019 + A1:2021 – Migration of Certain Elements

Analyte		Results (mg/kg)										
		A1	A2	A3	A4	A5	A6	A7	A8	-	-	
Boron	B	<4	4.5	<4	4	<4	<4	<4	<4	<4	-	-
Aluminium	Al	<3	<3	<3	<3	<3	<3	<3	<3	<3	-	-
Chromium	Cr	<0.03	<0.03	<0.03	0.08	<0.03	<0.03	0.056	0.46	<0.03	-	-
Manganese	Mn	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-
Cobalt	Co	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-
Nickel	Ni	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-
Copper	Cu	<1	<1	<1	1.8	<1	<1	<1	1.3	<1	-	-
Zinc	Zn	<1	4.5	<1	26.8	1.7	<1	<1	5.2	<1	-	-
Arsenic	As	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	-
Selenium	Se	<3	<3	<3	<3	<3	<3	<3	<3	<3	-	-
Strontium	Sr	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
Cadmium	Cd	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	1.8	<0.03	-	-
Tin	Sn	<2	<2	<2	<2	<2	<2	<2	<2	<2	-	-
Antimony	Sb	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
Barium	Ba	<2	<2	<2	3.2	11.1	<2	<2	2.1	<2	-	-
Mercury	Hg	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	-
Lead	Pb	<0.3	0.6	<0.3	1.1	1.4	<0.3	0.5	<0.3	<0.3	-	-
Conclusion		PASS	PASS	PASS	VOID	PASS	PASS	VOID	VOID	VOID	-	-

Method: EN 71-3:2019 + A1:2021 using ICP-MS.

Notes: mg/kg = milligram per kilogram
 "<" = less than
 VOID = Migration of chromium exceeded threshold for inference of compliance to chromium VI limit.
 Chromium VI speciation is required to definitively determine compliance.

UoM:

Analyte	Uncertainty (%)	Analyte	Uncertainty (%)	Analyte	Uncertainty (%)
Boron	20.62	Copper	20.62	Tin	33.17
Aluminium	20.62	Zinc	20.62	Antimony	33.17
Chromium	24.50	Arsenic	24.50	Barium	33.17
Manganese	20.62	Selenium	24.50	Mercury	33.17
Cobalt	24.50	Strontium	20.62	Lead	33.17
Nickel	24.50	Cadmium	24.50		

Limits:

Analyte	Cat. I	Cat. II	Cat. III	Analyte	Cat. I	Cat. II	Cat. III
Boron	1,200	300	15,000	Selenium	37.5	9.4	460
Aluminium	2,250	560	28,130	Strontium	4,500	1,125	56,000
Chromium III	37.5	9.4	460	Cadmium	1.3	0.3	17
Chromium VI	0.02	0.005	0.053	Tin	15,000	3,750	180,000
Manganese	1,200	300	15,000	Organic Tin	0.9	0.2	12
Cobalt	10.5	2.6	130	Antimony	45	11.3	560
Nickel	75	18.8	930	Barium	1,500	375	18,750
Copper	622.5	156	7,700	Mercury	7.5	1.9	94
Zinc	3,750	938	46,000	Lead	2.0	0.5	23
Arsenic	3.8	0.9	47				

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CONCLUSION

The EN 71-3 screening test performed by Eurofins Consumer Product Testing UK tests for the migration of 16 of the 19 elements restricted by EN 71-3:2019+A1:2021.

It does not analyse for the migration of chromium III, chromium VI, and organic tin, however, suitably low result for overall chromium and overall tin migration may be used to infer compliance with these limits.

Analysis of the sample(s) found that migration of the 16 elements restricted elements did not exceed the respective category limits, and therefore comply with the requirements of EN 71-3:2019+A1:2021.

Overall tin migration from the sample(s) was found to not exceed the in-house inference limit for organic tin and can therefore be inferred as complying with the requirement for organic tin.

Overall chromium migration from the sample(s) was found to not exceed the in-house inference limit for chromium III and can therefore be inferred as complying with the requirements for chromium III.

The test results contained in this report relate only to the sample(s) submitted and may not relate to the bulk from which the sample has been taken. This report is issued in accordance with Eurofins Consumer Product Testing UK's terms and conditions which are available on request. This report shall not be reproduced other than in full without prior written approval by Eurofins Consumer Product Testing UK Ltd.

End of Report

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ANNEX A: DECISION RULES

Rule 1	<p>Applicable to any requirement stated to be 'Minimum xxxx' or 'Maximum xxxx':</p> <p>The use of constrained simple acceptance based on the difference between the stated limit (requirement) and the reported test result being greater than the measurement uncertainty (U) for a conformity probability of 95%. The risk of false accept or false reject is $\leq 2.5\%$</p>
Rule 2	<p>Applicable to any requirement stated to be a range (e.g. XXX to YYY or AAA \pm B):</p> <p>The use of constrained simple acceptance based on the difference between the stated upper or lower limit (requirement) and the reported test result being greater than the measurement uncertainty (U) for a conformity probability of 95%. The risk of false accept or false reject is $\leq 2.5\%$</p>
Rule 3	<p>For tests based on subjective grading of a result using a 9-point scale (e.g. colour fastness, pilling, etc):</p> <p>Simple acceptance based on the test uncertainty ratio (T.U.R.) being ≥ 4. The risk of false accept or false reject is up to 50% but will be reduced the further the reported result is away from the stated requirement.</p>
Rule 4	<p>For tests based on a subjective assessment of a property (e.g. whether a component detaches or not):</p> <p>Simple acceptance based upon the conditions of testing falling within the criteria for test set out in the test method within a conformance probability of 95%. The risk of false accept or false reject of the testing conditions not meeting the specified requirements is 2.5%.</p>
Rule 5	<p>If a validated test method (e.g. BS EN ISO standard) indicates that the measurement uncertainty has already been taken into account when calculating the test result then results may be reported using simple acceptance without the need for the application of the relevant decision rule set out above.</p>

The above rules will be applied by default unless we have agreed a decision rule to the contrary. Eurofins MTS Consumer Product Testing UK Limited reserves the right to refuse to apply decision rules that do not satisfy the requirements of ISO 17025:2017. Unless otherwise stated in the report text above, uncertainty of measurement values are available upon request.