



UL VERIFICATION SERVICES INC.

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Evaluation of Test Results

Lab Report No: ARHL0919351

Issue Date: April 21, 2022

Item Description: 24K GP STS 3MM OCTOBER ROSE CRYSTAL



Rating: **Pass**

CLIENT: Richline Group

COUNTRY OF ORIGIN: Not Provided

SOURCING OFFICE: Not Applicable

SUPPLIER NAME: Richline Group Inc

STYLE NUMBER: 018IN2-90C

REASON FOR TESTING: Evaluation of the sample to client requirements.

*** Please see the following pages for additional item information ***

FACTORY NAME: Not Applicable

FACTORY NUMBER: Not Applicable

ADDITIONAL INFORMATION

1. The sample complies with the client requirement of no more than 100 ppm total lead (Pb) by weight and no more than 75 ppm total cadmium (Cd) by weight in substrate materials.
2. The sample complies with the nickel release requirement of less than 0.2ug/cm²/week using test method EN 1811 and EN 12472. See attached analytical chemistry report for results.
3. The sample was submitted for Gold Plating thickness testing, per client request. The average thickness is 0.53 microns. See the attached analytical chemistry report for test results.

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ADDITIONAL SAMPLE INFORMATION

SIZE(S)	COLOR(S)
Not Applicable	Not Applicable
PO NUMBER(S)	
Not Applicable	
UPC CODE(S)	
Not Applicable	
ITEM NUMBER(S)	
Not Applicable	

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Andrea Bertschy
LABORATORY MANAGER

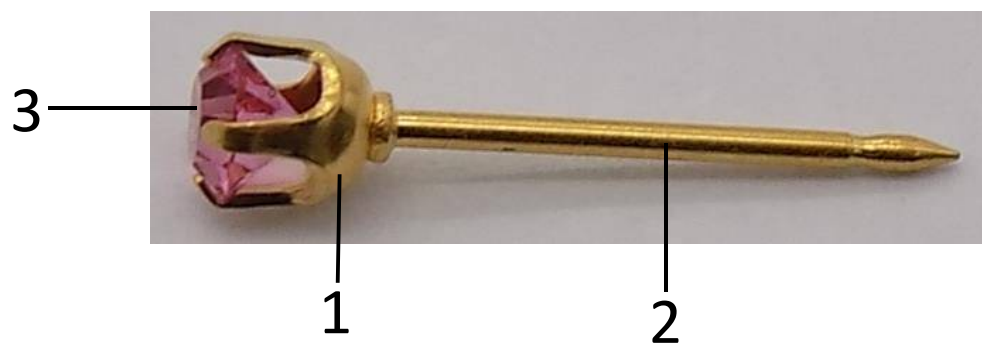
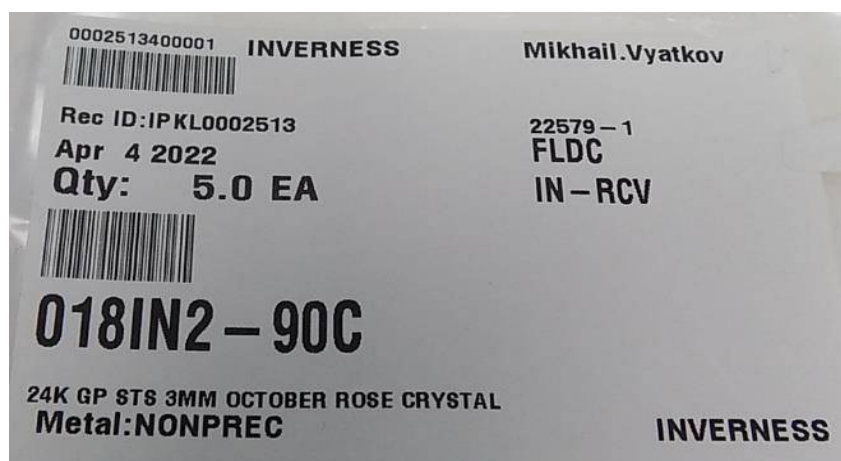
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Chris Dahl
SENIOR LABORATORY MANAGER

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Analytical Chemistry Report

ARHL0919351

Test Summary

Specification / Test Type	Result
1) Lead and Cadmium Content of Metal Substrates	Pass
2) Lead and Cadmium Content of Glass or Ceramic Substrates	Pass
3) Nickel Release	Pass
4) Metal Plating Thickness and Purity Determination	Pass

Component List

Component	Description
1	Gem setting - 24K gold plated stainless steel
2	Post - 24K gold plated stainless steel
3	Gem - pink
4	Earring - 24K gold plated stainless steel

Note: Multiple component numbers on a single test line represent a composite test or combined components

Test Data

1) Lead and Cadmium Content of Metal Substrates

Test Method: Lead and cadmium content was determined with reference to US Consumer Product Safety Commission method CPSC-CH-E1001-08.3

Component	Cd	Pb	Rating
Limit	75	100	-
1	< 5	< 10	Pass
2	< 5	< 10	Pass

Note: Pb - LOD = 10 mg/kg
Cd - LOD = 5 mg/kg

2) Lead and Cadmium Content of Glass or Ceramic Substrates

Test Method: Lead and cadmium content was determined with reference to US Consumer Product Safety Commission method CPSC-CH-E1002-08.3

Component	Cd	Pb	Rating
Limit	75	100	-
3	< 5	< 20	Pass

Note: Pb - LOD = 20 mg/kg
Cd - LOD = 5 mg/kg

† - Result above the applicable limit. Additional testing was required to determine rating

< = less than

ND = Not Detected, LOD = Limit of Detection

Results expressed in mg/kg unless otherwise noted

Analytical Chemistry Results

ARHL0919351

3) Nickel Release

Test Method: The following components were analyzed for released nickel with reference to EN 1811:2011+A1:2015/EN 12472:2020

Component	1	2
Results	-----	-----
Ni Release - Rep 1	0.02	< 0.02
Ni Release - Rep 2	< 0.02	< 0.02
Ni Release - Rep 3	< 0.02	< 0.02
Requirement Limit	0.2	0.2
Rating	Pass	Pass
-----	-----	-----
Exp. Details	-----	-----
Ext. Area (sq. cm)	0.38	0.23
Ext. Volume (mL)	3	3
Masking	YES	YES
LOD	0.02	0.02
Testing Start Date	04/14/2022	04/14/2022
Testing End Date	04/21/2022	04/21/2022

Note: Ni Release and Limits are reported in ug/sq. cm/week.
Due to method uncertainty, pass/fail is determined at 0.88 for samples with a limit of 0.5. Samples with a limit of 0.2 are determined at 0.35.

4) Metal Plating Thickness and Purity Determination

Test Method: The thickness and the purity of metal coating was determined using a Fischerscope X-Ray XDV-SDD.

Component	4
Product	Au/Stainless Steel
Plated Material	Gold
Gold Purity Requirement	24
Gold Purity (K)	24
Replicate 1	0.47
Replicate 2	0.58
Replicate 3	0.59
Replicate 4	0.52
Replicate 5	0.51
Average Thickness	0.53
Location Rep 1	Gem setting
Location Rep 2	Gem setting
Location Rep 3	Gem setting
Location Rep 4	Post
Location Rep 5	Post
Rating	Pass

Note: Data is reported in microns (µm)

† - Result above the applicable limit. Additional testing was required to determine rating
 < = less than
 ND = Not Detected, LOD = Limit of Detection
 Results expressed in mg/kg unless otherwise noted