TREMUN

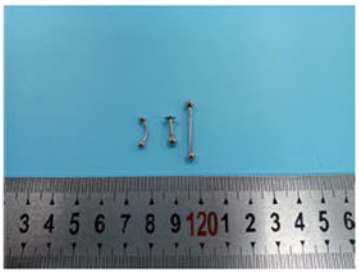
PREMIUM BODY JEWELRY

TEST REPORT

Test Report #	21W-028554(R1)	Date of Report Issue:	February 16, 2022
Date of Sample Received:	December 10, 2021	Pages:	Page 1 of 14

CLIENT INFORMATION:

+Company:	Tremun Piercing
+Address:	Info@tremunpiercing.com



SAMPLE INFORMATION:

+Product Name:	Titanium body piercing jewelry ASTM F136		
Product Reference No.:	20211208		
Style No.:	-	Labeled Age Grade:	-
Order No.(PO No.):	211208	Client Request Age Grade:	5-13 years
		Recommended Age Grade:	-
Country of Distribution:	Europe, United States	Tested Age Grade:	5-13 years
+Buyer Name:	Tremun Piercing		
Factory Name:	Tremun Piercing		
Manufacturer Name:	Tremun Piercing		
Previous Test Report No.:	21W-011105		
Testing Period:	12/23/2021-01/04/2022		

OVERALL RESULT: PASS

TEST RESULTS SUMMARY:

At the request of the client, the following tests were conducted:

CONCLUSION	TEST(S) CONDUCTED
PASS	ASTM F2999-19 Adult Jewelry, Clause 5 Total Lead in Substrate Materials
PASS	ASTM F2923-20 Consumer Product Safety for Children's Jewelry, Clause 5 and 9 Total Lead and Cadmium in Substrate Materials
PASS	ASTM F2999-19 Adult Jewelry, Clause 8 Total Cadmium in Metallic and Plastic/Polymeric Components
PASS	ASTM F2999-19 Adult Jewelry, Clause 10 Nickel in Metal Materials – Inserted into Pierced Parts of Body
PASS	ASTM F2999-19 Adult Jewelry, Clause 10 Nickel in Metal Materials – Direct and Prolonged Contact with Skin
PASS	ASTM F2923-20 Consumer Product Safety for Children's Jewelry, Clause 10 Nickel in Metal Materials – Inserted into Pierced Parts of Body
PASS	ASTM F2923-20 Consumer Product Safety for Children's Jewelry, Clause 10 Nickel in Metal Materials – Direct and Prolonged Contact with Skin
PASS	ASTM F2923-20 Consumer Product Safety for Children's Jewelry, Mechanical Requirements

Remark: †Revised information and supersedes the previous report no. 21W-028554 date: 01/13/2022

DETAILED RESULTS:

ASTM F2999-19 Adult Jewelry, Clause 5 Total Lead in Substrate Materials

Test Method: CPSC-CH-E1001-08.3 (Metal), CPSC-CH-E1002-08.3 (Non-Metal)
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry
Unplated Metal

Specimen No.	6	---	---	---	---	**Total Limit (mg/kg)**
	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	---	---	---		
Conclusion	PASS	---	---	---		

Note:
mg/kg =Milligrams per kilogram
LT = Less than
ND = Not detected (Reporting Limit =15 mg/kg)

DETAILED RESULTS:

ASTM F2923-20 Consumer Product Safety for Children's Jewelry, Clause 5 and 9 Total Lead and Cadmium in Substrate Materials

Test Method: ASTM F963-17 Clause 8.3.1
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	6	---	---	---	---	**Total Limit (mg/kg)**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	---	---	---		
Total Cadmium (Cd)	ND	---	---	---		
Conclusion	PASS	---	---	---		

Note:
mg/kg =Milligrams per kilogram
LT = Less than
ND = Not detected (Reporting Limit =15 mg/kg)

Remark:
*Covered components of children's jewelry containing 75 mg/kg or less total cadmium do not need to be tested for soluble cadmium.

DETAILED RESULTS:

ASTM F2999-19 Adult Jewelry, Clause 8 Total Cadmium in Metallic and Plastic/Polymeric Components

Test Method: ASTM F963-17 Clause 8.3.1
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	6	---	---	---	---	**Total Limit (mg/kg)**
	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Cadmium (Cd)	ND	---	---	---		
Conclusion	PASS	---	---	---		

Note:
mg/kg=Milligrams per kilogram
LT = Less than
ND = Not detected (Reporting Limit = 15 mg/kg)

Remark:
*Covered components of adult jewelry containing 15000 mg/kg or less total cadmium do not need to be tested for migratable cadmium.

DETAILED RESULTS:

ASTM F2999-19 Adult Jewelry, Clause 10 Nickel in Metal Materials – Inserted into Pierced Parts of Body

Test Method: EN 12472:2020&EN 1811:2011+A1:2015 [1]/ EN 1811:2011+A1:2015[2]
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Pierced parts of the human body

Specimen No.	1			
	Trial 1	Trial 2	Trial 3	
Test Item	Result	Result	Result	**Limit**
Size of Tested Sample Area (cm^2)	1	1	1	
Volume of Test solution Used (mL)	1	1	1	
Nickel result ($\mu g/cm^2$/week)[1]	ND	ND	ND	**0.2***
Nickel result ($\mu g/cm^2$/week)[2]	ND	ND	ND	
Conclusion	PASS			

Specimen No.	3			
	Trial 1	Trial 2	Trial 3	
Test Item	Result	Result	Result	**Limit**
Size of Tested Sample Area (cm^2)	2	2	2	
Volume of Test solution Used (mL)	2	2	2	
Nickel result ($\mu g/cm^2$/week)[1]	ND	ND	ND	**0.2***
Nickel result ($\mu g/cm^2$/week)[2]	ND	ND	ND	
Conclusion	PASS			

Note:
cm^2 = Square centimeters
$\mu g/cm^2$/week = Micrograms per square centimeter per week
mL = Millilitres
LT = Less than
ND = Not detected (Reporting Limit = 0.1 $\mu g/cm^2$/week)
*According to EN 1811:2011+A1:2015 Section 9.2.2, the compliance shall be evaluated with the combined measurement uncertainty, an article is:
Pass and permitted to be placed on the market when the nickel release value is less than 0.35 $\mu g/cm^2$/week;
Fail when the nickel release value is greater than or equal to 0.35 $\mu g/cm^2$/week.

DETAILED RESULTS

ASTM F2999-19 Adult Jewelry, Clause 10 Nickel in Metal Materials – Direct and Prolonged Contact with Skin

Test Method: EN 12472:2020&EN 1811:2011+A1:2015 [1]/ EN 1811:2011+A1:2015[2]
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Direct and Prolonged Contact with Skin

Specimen No.	2			
	Trial 1	Trial 2	Trial 3	
Test Item	Result	Result	Result	**Limit**
Size of Tested Sample Area (cm^2)	1	1	1	
Volume of Test solution Used (mL)	1	1	1	
Nickel result ($\mu g/cm^2$/week)[1]	ND	ND	ND	**0.5***
Nickel result ($\mu g/cm^2$/week)[2]	ND	ND	ND	
Conclusion	PASS			

Specimen No.	4			
	Trial 1	Trial 2	Trial 3	
Test Item	Result	Result	Result	**Limit**
Size of Tested Sample Area (cm^2)	1	1	1	
Volume of Test solution Used (mL)	1	1	1	
Nickel result ($\mu g/cm^2$/week)[1]	ND	ND	ND	**0.5***
Nickel result ($\mu g/cm^2$/week)[2]	ND	ND	ND	
Conclusion	PASS			

Note:
cm^2 = Square centimeters
$\mu g/cm^2$/week = Micrograms per square centimeter per week
mL = Millilitres
LT = Less than
ND = Not detected (Reporting Limit = 0.1 $\mu g/cm^2$/week)
*According to EN 1811:2011+A1:2015 Section 9.2.2, the compliance shall be evaluated with the combined measurement uncertainty, an article is:
Pass and permitted to be placed on the market when the nickel release value is less than 0.88 $\mu g/cm^2$/week;
Fail when the nickel release value is greater than or equal to 0.88 $\mu g/cm^2$/week.

DETAILED RESULTS:

ASTM F2923-20 Consumer Product Safety for Children's Jewelry, Clause 10 Nickel in Metal Materials – Inserted into Pierced Parts of Body

Test Method: EN 12472:2020&EN 1811:2011+A1:2015 [1]/ EN 1811:2011+A1:2015[2]
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1			**Limit**
	Trial 1	Trial 2	Trial 3	
Test Item	Result	Result	Result	
Size of Tested Sample Area (cm^2)	1	1	1	
Volume of Test solution Used (mL)	1	1	1	
Nickel result ($\mu g/cm^2$/week)[1]	ND	ND	ND	**0.2***
Nickel result ($\mu g/cm^2$/week)[2]	ND	ND	ND	
Conclusion	PASS			

Specimen No.	3			**Limit**
	Trial 1	Trial 2	Trial 3	
Test Item	Result	Result	Result	
Size of Tested Sample Area (cm^2)	2	2	2	
Volume of Test solution Used (mL)	2	2	2	
Nickel result ($\mu g/cm^2$/week)[1]	ND	ND	ND	**0.2***
Nickel result ($\mu g/cm^2$/week)[2]	ND	ND	ND	
Conclusion	PASS			

Note:
cm^2 = Square centimeters
mL = Millilitres
$\mu g/cm^2$/week = Micrograms per square centimeter per week
LT = Less than
ND = Not detected (Reporting Limit = 0.1 µg/cm2/week)

Remark:
*According to EN 1811:2011+A1:2015, clause 9.2.2, applying the measurement uncertainty, an article is:
Compliant when the nickel release value is less than 0.35 $\mu g/cm^2$/week;
Non-compliant when the nickel release value is greater than or equal to 0.35 $\mu g/cm^2$/week.

DETAILED RESULTS:

ASTM F2923-20 Consumer Product Safety for Children's Jewelry, Clause 10 Nickel in Metal Materials – Inserted into Pierced Parts of Body

Test Method: EN 12472:2020&EN 1811:2011+A1:2015 [1]/ EN 1811:2011+A1:2015[2]
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	5			**Limit**
	Trial 1	Trial 2	Trial 3	
Test Item	Result	Result	Result	
Size of Tested Sample Area (cm^2)	1	1	1	
Volume of Test solution Used (mL)	1	1	1	
Nickel result ($\mu g/cm^2$/week)[1]	ND	ND	ND	**0.2***
Nickel result ($\mu g/cm^2$/week)[2]	ND	ND	ND	
Conclusion	PASS			

Note:
cm^2 = Square centimeters
mL = Millilitres
$\mu g/cm^2$/week = Micrograms per square centimeter per week
LT = Less than
ND = Not detected (Reporting Limit = 0.1 µg/cm2/week)

Remark:
*According to EN 1811:2011+A1:2015, clause 9.2.2, applying the measurement uncertainty, an article is:
Compliant when the nickel release value is less than 0.35 $\mu g/cm^2$/week;
Non-compliant when the nickel release value is greater than or equal to 0.35 $\mu g/cm^2$/week.

DETAILED RESULTS

ASTM F2923-20 Consumer Product Safety for Children's Jewelry, Clause 10 Nickel in Metal Materials – Direct and Prolonged Contact with Skin

Test Method: EN 12472:2020&EN 1811:2011+A1:2015 [1]/ EN 1811:2011+A1:2015[2]
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	2			
	Trial 1	Trial 2	Trial 3	
Test Item	Result	Result	Result	**Limit**
Size of Tested Sample Area (cm^2)	1	1	1	
Volume of Test solution Used (mL)	1	1	1	
Nickel result ($\mu g/cm^2$/week)[1]	ND	ND	ND	**0.5***
Nickel result ($\mu g/cm^2$/week)[2]	ND	ND	ND	
Conclusion	PASS			

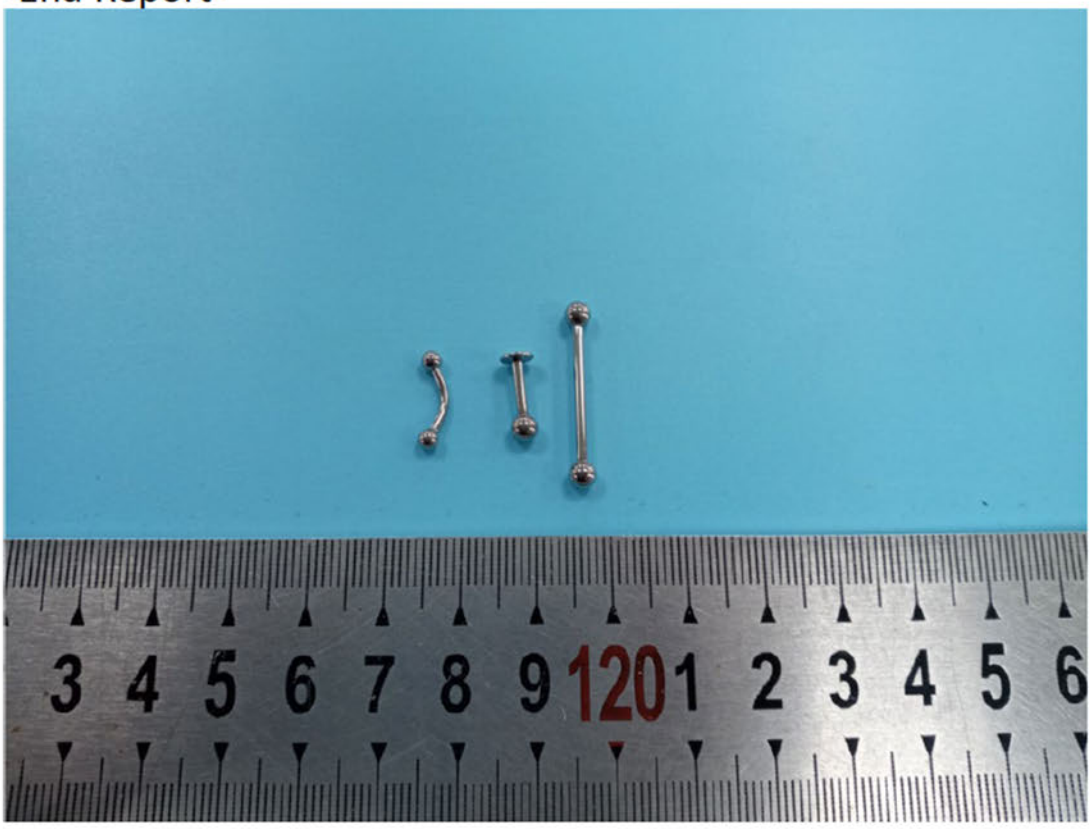
Specimen No.	4			
	Trial 1	Trial 2	Trial 3	
Test Item	Result	Result	Result	**Limit**
Size of Tested Sample Area (cm^2)	1	1	1	
Volume of Test solution Used (mL)	1	1	1	
Nickel result ($\mu g/cm^2$/week)[1]	ND	ND	ND	**0.5***
Nickel result ($\mu g/cm^2$/week)[2]	ND	ND	ND	
Conclusion	PASS			

Note:
cm^2 = Square centimeters
mL = Millilitres
$\mu g/cm^2$/week = Micrograms per square centimeter per week
LT = Less than
ND = Not detected (Reporting Limit = 0.1 $\mu g/cm^2$/week)

Remark:
*According to EN 1811:2011+A1:2015, clause 9.2.2, applying the measurement uncertainty, an article is:
Compliant when the nickel release value is less than 0.88 $\mu g/cm^2$/week;
Non-compliant when the nickel release value is greater than or equal to 0.88 $\mu g/cm^2$/week.

SAMPLE PHOTO:

-End Report-



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