



Test Report


CTIC Testing Group (Guangdong) Co., Ltd.

Report No:CTICAE4282408200629012HR

Applicant : Wuzhou Messi Gems Co., Ltd
Address : Rooms B5,B6,B7 and B8, Floor 2, Building 2, No. 137 Xinxing 2nd Road,Wuzhou City, Changzhou District, Wuzhou City, Guangxi Zhuang Autonomous Region, China
Manufacturer : Wuzhou Messi Gems Co., Ltd
Address : Rooms B5,B6,B7 and B8, Floor 2, Building 2, No. 137 Xinxing 2nd Road,Wuzhou City, Changzhou District, Wuzhou City, Guangxi Zhuang Autonomous Region, China

The following sample(s) was /were submitted and identified on behalf of the clients as:

Sample Name : Color Lab Grown Diamond

Trade Mark : 

Main of Model : 0320CLGDDEVS VVS

Additional Model : Round,Pear,Oval,Asscher,Princess,Cushion,Radiant,Heart,Emerald,Marquise

Sample Received Date : Aug ,22,2024

Testing Period : Aug ,23,2024 To Aug ,25,2024

Test Requested : As requested by client, Total Lead Content--European Regulation (EC)No.1907/2006 of the;Registration,Evaluation,Authorisation and Restriction of Chemicals (REACH).Annex XVII Item 63;Total Cadmium Content--European Regulation (EC)No.1907/2006 of theRegistration Evaluation,Authorisation and Restriction of Chemicals (REACH)Annex XVII Item 23;Total Nickel release--European Regulation (EC)No.1907/2006 of the Registration Evaluation,Authorisation and Restriction of Chemicals (REACH)Annex XVI Item 27.

Test Method : Please refer to next page(s).

Test Result : Please refer to next page(s).

Summary : According to the specified scope and analytical techniques,the test results Total Lead Total Cadmium Nickel release of Not Detected .



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Signed for and on behalf of



Approved Signatory



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Test Method and Test Equipment:

No.	Test Item	Test Method	Test Equipment
1	Total Lead	IEC 62321-5:2013	ICP-AES
2	Total Cadmium	EN 1122:2001	ICP-AES
3	Nickel release	EN 1811:2023	ICP-AES

Test Result:

No.	Test Item	Unit	Limit	Result	Conclusion
blue lab grown diamond	Total Lead	mg/kg	500	N. D	Pass
	Total Cadmium	mg/kg	100	N. D	Pass
	Nickel release	$\mu\text{g} \cdot \text{cm}^{-2} \cdot \text{week}^{-1}$	See remark	N. D	Pass
green lab grown diamond	Total Lead	mg/kg	500	N. D	Pass
	Total Cadmium	mg/kg	100	N. D	Pass
	Nickel release	$\mu\text{g} \cdot \text{cm}^{-2} \cdot \text{week}^{-1}$	See remark	N. D	Pass
pink lab grown diamond	Total Lead	mg/kg	500	N. D	Pass
	Total Cadmium	mg/kg	100	N. D	Pass
	Nickel release	$\mu\text{g} \cdot \text{cm}^{-2} \cdot \text{week}^{-1}$	See remark	N. D	Pass
yellow lab grown diamond	Total Lead	mg/kg	500	N. D	Pass
	Total Cadmium	mg/kg	100	N. D	Pass
	Nickel release	$\mu\text{g} \cdot \text{cm}^{-2} \cdot \text{week}^{-1}$	See remark	N. D	Pass



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Remark:

-mg/kg=ppm

-N.D.=Not Detected (less than MDL).

-MDL=Method Detection Limit.

-pg-cm⁻²·week⁻¹=Microgram per square centimetre per week.

-The maximum limit was quoted from European Directive 94/27/EC &2004/96/EC.

--In all post assemblies which are inserted into pierced ears and other pierced parts of the human body, unless the rate of nickel release from such post assemblies is less than 0.2 µg cm⁻²·week⁻¹.

--In products intended to come into direct and prolonged contact with the skin is less than 0.5 µg cm⁻²·week⁻¹.

Conclusjons	Compliant	Non -Compliant
For articles with a migration limit of <0.2 µg · cm ⁻² · week ⁻¹	≤0.11 µg · cm ⁻² · week ⁻¹	≥0.35 µg · cm ⁻² · week ⁻¹
For articles with a migration limit of <0.5 µg · cm ⁻² · week ⁻¹	≤0.28 µg · cm ⁻² · week ⁻¹	≥0.88 µg · cm ⁻² · week ⁻¹

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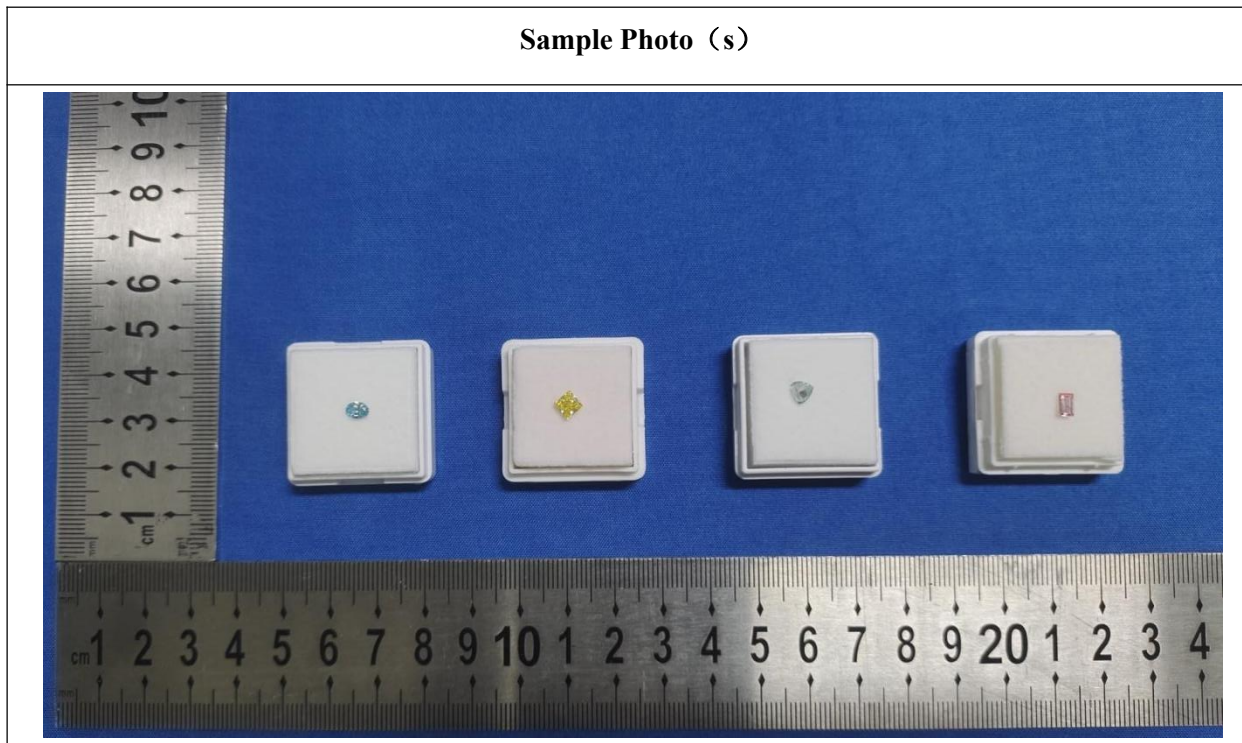


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Sample Photo (s)



*** End of Report ***

