

Analysis report

Pelt, 2020 Nov 9th

Commissioned by

Concerning: Ancient Tang Dynasty Mirror



Measurement system control

Verification analysis by EDXRF (Energy Dispersive X-Ray Fluorescence spectrometry):
 System: Innov X alpha 2000A-8248

Verification analyzes vs. References		Fe	Ni	Cu	Zn	Pb	Sn
Reference	Brass	0.14	12.31	58.68	27.50	1.37	
	Meas. Innov X 07.11.2020	0.15	12.32	58.65	27.54	1.37	
Reference	Bronze			93.80	0.40		5.80
	Meas. Innov X 07.11.2020			93.82	0.39		5.77

Analysis by EDXRF (Energy Dispersive X-Ray Fluorescence spectrometry):

Measurement point	Cu	Sn	Pb	Fe
	%	%	%	%
Front	70,3	26,5	3,30	
Rear 1	71,1	25,7	3,24	
Rear 2	70,3	26,5	3,16	
Rear 3	69,6	27,2	3,45	0,33
averages	70,3	26,5	3,29	

References: Composition of Tang Dynasty Bronze Mirrors (618 – 907 AD):
± 60 – 70% Cu, 25 – 33% Sn, 3 – 5% Pb
(An Investigation of Early Chinese Bronze Mirrors at the Harvard University Art Museums, Susan D Costello)
(Chinese Bronzes, casting, finishing, patination and corrosion, Getty Center, W T Chase)

Statement

**None of the analyses give rise to a suspicion of forgery or contemporary copy.
This copper alloy with high tin and low lead content is typical for the Tang Dynasty Bronze mirrors.**

This statement is an opinion and therefore gives no right to redress or liability of any kind.

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RJM. Bové



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