

Analysis report

Pelt, 2020 Oct 7th

Commissioned by

Concerning: Ancient Roman Montefortino Helmet



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 Claydon standard # 18	Brass	0.14	12.31	58.68	27.50	1.37	
	Meas. Innov X 06.10.2020	0,14	12.30	58.70	27.49	1.38	
Reference Claydon standard # 19	Bronze			93.80	0.40		5.80
	Meas. Innov X 06.10.2020			93.78	0.40		5.81

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

Measurement point	Cu	Pb	Fe	Sn
	%	%	%	%
Outside back	90,2	0,09	0,66	9,11
Outside front	92,9	0,07	0,57	6,58
Inside middle right	93,7	0,70	0,79	4,81
Inside top	94,5	0,11	0,31	5,2
averages	92,8	0,2	0,6	6,4

Reference: The MET Ass# 2015.758.1 Montefortino Bronze Helmet – 3th century BC.

Statement

None of the observations or analyses give rise to a suspicion of forgery or contemporary copy. This copper alloy with medium tin and low lead content is typical for Roman bronze around 300 BC through the 1st century AD .

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

Pelt, 2020 June 20th



RJM. Bové



Only a sealed print with an original blind stamp is recognized as a valid and unchanged report.