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FAPAS REFERENCE MATERIAL DATA SHEET	TET019RM		
Matrix	Wine		
Weight / Volume of Contents	50 ml		
Description of material: Red wine spiked with Cadmium (Cd) and Lead (Pb). Copper (Cu) is present at its natural (incurred) level.			

Analyte	Reference Value	Expanded uncertainty <i>U</i> (k = 2)	Units	No. of data points producing Reference Value
Cadmium (Cd)	92.0	± 5.3	μg/l	21
Copper (Cu)	266	± 20	μg/l	20
Lead (Pb)	156	± 11	μg/l	22

Date reference values were generated	18/02/2015
Reference values are valid until	10/04/2021
Recommended storage conditions on receipt	+4 °C, Dark
This material was approved on behalf of FAPAS by	Mark Sykes

Notes

- Mix the reference material thoroughly before taking a representative analytical sample. It is intended to be used as a single-analysis sample (plus confirmation) for analytical quality control purposes. The recommended minimum analytical sub-sample size is 2 ml.
- This is a reference material, not a certified reference material.
- This reference material has been produced according to the principles of ISO 17034.
- The reference values have been derived from the results consensus of ISO 17025 accredited laboratories taking part in proficiency test, using a variety of methods. The traceability is inherent in the accreditation status of the results used.
- The majority of results contributing to the generation of the reference values used nitric acid digestion followed by ICP (MS or OES) determination.
- The Expanded Uncertainty *U* corresponds to a confidence level of about 95%. *U* has been derived from the observed standard deviation of the consensus data (the major component) plus contributions from homogeneity and stability studies.
- The stability of the reference material has been established from a formal study. The stability components combine long term (ideal storage) and short term stability (transportation) conditions. The validity date may be extended if supporting data becomes available
- The previous validity date of this reference material was 10/04/2019.