

Fapas® REFERENCE MATERIAL DATA SHEET	TYG076RM
Matrix	Tomato Paste
Weight / Volume of Contents	50 g
Description of material: The material was procured from a retail source. All analytes were spiked to fortify naturally occurring levels present in the material.	

Analyte	Reference Value	Expanded uncertainty U ($k = 2$)	Units	No. of data points producing Reference Value
Cadmium (Cd)	254	± 25	µg/kg	62
Iron (Fe)	126	± 12	mg/kg	39
Lead (Pb)	408	± 43	µg/kg	63
Tin (Sn)	162	± 16	mg/kg	45

Date reference values were generated	09/09/2020
Reference values are valid until	09/09/2022
Recommended storage conditions on receipt	-20 °C
This material was approved on behalf of Fapas® by	Joe Holland

Notes
<ul style="list-style-type: none"> 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, method verification and as a characterised positive control sample. The recommended minimum analytical sub-sample size is 1 g. This is a reference material, not a certified reference material. This reference material has been produced according to the principles of ISO 17034:2016. The characterised reference values have been derived from the results consensus of ISO 17025 accredited laboratories in an interlaboratory comparison, using a variety of methods. The traceability is inherent in the accreditation status of the results used. The majority of the results used to generate the reference value were determined using ICP MS, following microwave digestion in nitric acid. 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. U corresponds to real-world uncertainty of the analysis in a food matrix, not of a pure substance. 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.