

FAPAS QC MATERIAL DATA SHEET	T07572QC
Matrix	Mixed Vegetable Juice
Weight / Volume of Contents	50 g

Analyte	Assigned Value, $X_a$	Range for $ z  \leq 2$	Units	No. of data points producing $X_a$
Arsenic (total)	44.1	24.7 - 63.5	$\mu\text{g}/\text{kg}$	12
Cadmium	37.3	20.9 - 53.7	$\mu\text{g}/\text{kg}$	14
Chromium	78.8	44.1 - 113.5	$\mu\text{g}/\text{kg}$	5
Lead	33.0	18.5 - 47.5	$\mu\text{g}/\text{kg}$	13
Mercury (total)	28.9	16.2 - 41.5	$\mu\text{g}/\text{kg}$	13
Nickel	72.1	40.4 - 103.8	$\mu\text{g}/\text{kg}$	11
Copper	222	133 - 311	$\mu\text{g}/\text{kg}$	7
Iron	2065	1473 - 2657	$\mu\text{g}/\text{kg}$	12
Manganese	812	544 - 1079	$\mu\text{g}/\text{kg}$	10
Zinc	795	532 - 1059	$\mu\text{g}/\text{kg}$	11
Magnesium	114	96 - 132	$\text{mg}/\text{kg}$	6

This data sheet is applicable until	30 Nov 2026
Recommended Storage on receipt	-20°C

Notes

- Mix the QC material thoroughly before taking a representative analytical sample
- The assigned value has been derived from the consensus of laboratories taking part in this proficiency test, using a variety of methods. This is not a certified reference value.
- The Range for  $|z| \leq 2$  is the concentration range within the limits of  $\pm 2$  z-scores. The assigned value and its range have been established from the proficiency test data and are suitable for use by laboratories as a fit-for-purpose quality control measure.
- Stability of the QC material has been established as sufficient for the scope of the proficiency test from previous experience, expert advice and published literature. FAPAS advises that the QC material is analysed within the recommended date. FAPAS QC materials are intended to be used as single-analysis samples.
- Full details on the proficiency test procedure used to characterise this QC material are available in the Protocol, Part 1 - Common Principles, freely available to download from the FAPAS website.
- You may use any method of analysis you wish.