spex®
certiprep

Essential Minerals and Nutrients

- Designed for the testing and monitoring of elemental levels in food for human consumption
- Nutrients play a key role in metabolism in many organisms, especially ones involved in providing human nutrition

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Essential Minerals and Nutrients

Plant nutritional requirements are important to consider in light of the understanding that human beings derive many of their own nutritional requirements from the plants that are consumed to fuel our own metabolism. The elements of the periodic table, especially the essential nutrients, play a key role in metabolism in many organisms, especially ones involved in providing human nutrition. That reason is why many world regulatory organizations require testing and monitoring of elemental levels in food for human consumption. Organizations such as the FDA, provide labeling requirements that reflect the levels of critical elements (and other components) in food. Spex CertiPrep is a proud partner with many agencies and laboratories around the world to provide standards of elemental nutrients for the betterment of global food safety testing.

Inorganic Certified Reference Materials

For use with ICP-MS

Supplied with a Certificate of Analysis

ISO Accredited Standards

Essential Minerals and Nutrients

Element	Concentration	Volume	Matrix	Part #
Calcium	1,000 µg/mL	30 mL	2% HNO_3	PLCA2-2M
Calcium	1,000 µg/mL	125 mL	2% HNO_3	PLCA2-2Y
Calcium	1,000 µg/mL	250 mL	2% HNO_3	PLCA2-2T
Calcium	1,000 µg/mL	500 mL	2% HNO_3	PLCA2-2X
Chromium	1,000 µg/mL	30 mL	2% HNO_3	PLCR2-2M
Chromium	1,000 µg/mL	125 mL	2% HNO_3	PLCR2-2Y
Chromium	1,000 µg/mL	250 mL	2% HNO_3	PLCR2-2T
Chromium	1,000 µg/mL	500 mL	2% HNO_3	PLCR2-2X
Copper	1,000 µg/mL	30 mL	2% HNO_3	PLCU2-2M
Copper	1,000 µg/mL	125 mL	2% HNO_3	PLCU2-2Y
Copper	1,000 µg/mL	250 mL	2% HNO_3	PLCU2-2T
Copper	1,000 µg/mL	500 mL	2% HNO_3	PLCU2-2X
Iron	1,000 µg/mL	30 mL	2% HNO_3	PLFE2-2M
Iron	1,000 µg/mL	125 mL	2% HNO_3	PLFE2-2Y
Iron	1,000 µg/mL	250 mL	2% HNO_3	PLFE2-2T
Iron	1,000 µg/mL	500 mL	2% HNO_3	PLFE2-2X
Magnesium	1,000 µg/mL	30 mL	2% HNO_3	PLMG2-2M
Magnesium	1,000 µg/mL	125 mL	2% HNO_3	PLMG2-2Y
Magnesium	1,000 µg/mL	250 mL	2% HNO_3	PLMG2-2T
Magnesium	1,000 µg/mL	500 mL	2% HNO_3	PLMG2-2X
Manganese	1,000 µg/mL	30 mL	2% HNO_3	PLMN2-2M
Manganese	1,000 µg/mL	125 mL	2% HNO_3	PLMN2-2Y
Manganese	1,000 µg/mL	250 mL	2% HNO_3	PLMN2-2T
Manganese	1,000 µg/mL	500 mL	2% HNO_3	PLMN2-2X
Molybdenum	1,000 µg/mL	30 mL	H_2O	PLMO9-2M
Molybdenum	1,000 µg/mL	125 mL	H_2O	PLMO9-2Y

Essential Minerals and Nutrients (continued)

Element	Concentration	Volume	Matrix	Part #
Molybdenum	1,000 µg/mL	250 mL	H_2O	PLMO9-2T
Molybdenum	1,000 µg/mL	500 mL	H_2O	PLMO9-2X
Phosphorus	1,000 µg/mL	30 mL	H_2O	PLP9-2M
Phosphorus	1,000 µg/mL	125 mL	H_2O	PLP9-2Y
Phosphorus	1,000 µg/mL	250 mL	H_2O	PLP9-2T
Phosphorus	1,000 µg/mL	500 mL	H_2O	PLP9-2X
Potassium	1,000 µg/mL	30 mL	2% HNO_3	PLK2-2M
Potassium	1,000 µg/mL	125 mL	2% HNO_3	PLK2-2Y
Potassium	1,000 µg/mL	250 mL	2% HNO_3	PLK2-2T
Potassium	1,000 µg/mL	500 mL	2% HNO_3	PLK2-2X
Selenium	1,000 µg/mL	30 mL	2% HNO_3	PLSE2-2M
Selenium	1,000 µg/mL	125 mL	2% HNO_3	PLSE2-2Y
Selenium	1,000 µg/mL	250 mL	2% HNO_3	PLSE2-2T
Selenium	1,000 µg/mL	500 mL	2% HNO_3	PLSE2-2X
Sodium	1,000 µg/mL	30 mL	2% HNO_3	PLNA2-2M
Sodium	1,000 µg/mL	125 mL	2% HNO_3	PLNA2-2Y
Sodium	1,000 µg/mL	250 mL	2% HNO_3	PLNA2-2T
Sodium	1,000 µg/mL	500 mL	2% HNO_3	PLNA2-2X
Zinc	1,000 µg/mL	30 mL	2% HNO_3	PLZN2-2M
Zinc	1,000 µg/mL	125 mL	2% HNO_3	PLZN2-2Y
Zinc	1,000 µg/mL	250 mL	2% HNO_3	PLZN2-2T
Zinc	1,000 µg/mL	500 mL	2% HNO_3	PLZN2-2X