NQAC
Nestlé Quality Assurance Center

Technical Datasheet

Analysis Name:	Nine Nutritional by ICP-OES
Method Number:	OM-AOAC-2011.14
Scope Application:	This method describes the determination of calcium, copper, iron, potassium, magnesium, manganese, sodium, phosphorus, and zinc by ICP-OES in foods, beverages (finished, concentrates, and powders), health products, pet foods, and raw materials such as premixes, food grade oils, salts, and tastemakers.
Description:	Test portion is heated at 200°C with nitric acid in a closed vessel microwave digestion system. Digested samples are ionized through inductively coupled argon plasma and the element emission rays' position and intensity are measured.
Sample Weight Required:	50 g
Method Reference:	AOAC 2011.14 Ca, Cu, Fe, Mg, Mn, K, P, Na, and Zn in Fortified Food Products
Analytical Platform:	ICP-OES
Special Information:	LOQ are dependent of matrix. Method accredited ABNT ISO 17025: 2017.

Analyte Reported	Alias	Unit of Measure	Typical Limit of Quantification	Uncertainty
Calcium	Ca	mg/100g	15	< 15 %
Copper	Cu	mg/100g	0.5	< 15 %
Iron	Fe	mg/100g	5	< 15 %
Magnesium	Mg	mg/100g	5	< 15 %
Manganese	Mn	µg/100g	5	< 15 %
Phosphorus	P	mg/100g	10	< 15 %
Potassium	K	mg/100g	20	< 15 %
Sodium	Na	mg/100g	10	< 15 %
Zinc	Zn	mg/100g	0.5	< 15 %

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