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:	50g
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:	Indicate each element required. Include Certificate of Analysis for premix samples. QLs are dependent on matrix and potential interferences.

Analyte Reported	Common name	Unit	Typical limit of Quantification	Reproducibility
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	mg/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 %