



# FOOD CHEMISTRY



## Overview

## Nutritional Labelling

## Proximate Analysis

## Vitamin Testing

## Heavy Metals and Minerals

## Scope of Services - Food Chemistry

**Maxxam provides an industry leading scope of services to ensure the delivery of quality products to the market.**

### Overview

Changes in regulations in consumer preference are driving changes to the foods that are being developed and sold to the market. Whether the analysis is required to generate a nutritional label or in support of the product development process, food companies need reliable results in a time frame that meet their business needs.

### Nutritional Labelling

Nutrition Facts Tables provide information on a minimum of 13 nutrient parameters, including calories, fats, cholesterol, sodium, potassium, carbohydrates, dietary fibre, total sugar, protein, vitamins and minerals. Regulations drive the need for precise and accurate methods as well as expertise in generating compliant labels. Maxxam combines analytical expertise and experience with a print-ready label generating service to provide a full solution for our customers.

### Vitamin Testing

The demand for fortified foods has increased and with it the need for reliable methods across the broad spectrum of food types. The wide variety of foods and natural health products requiring analysis require robust and fit-for-purpose analytical methods in order for food companies to provide reliable and cost-effective products to the market.

### Heavy Metals and Minerals

Whether they are present as nutrients or contaminants, metals analysis is a critical component in the production of safe and healthy products. Maxxam offers both comprehensive metal scans and analyte-specific methods to meet the wide-ranging needs of our clients.

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## Scope of Services - Food Chemistry

### Vitamins

A (IU / RE)
B1 (Thiamine)
B2 (Riboflavin)
B3 (Niacin) (IU & NE)
B5 (Pantothenic Acid)
B6
B12
C (Ascorbic Acid)
D (IU / 100g & mg / 100g)
E
K
Folic Acid
Biotin

### Sugar Profile

Sugar Alcohols
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### Nutritional Labelling

13 Core Nutrients
Calories
Fat
Sodium
Carbohydrates
Proteins
Calcium
Cholesterol
Saturated Fats (Trans)
Fibre
Sugars
Vitamin A
Vitamin C
Iron
Starch
Solids

### Allergens

Peanut Protein
Milk Protein
Soy Protein
Gluten Protein
Meat Protein
Egg Protein
Almond Protein

### Moisture

Karl Fischer
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### Ash

### Residue Screening

Pesticide
Herbicide
Veterinary Drugs

### Fatty Acid Profiles (include)

Omega - 3
Omega - 6
DHA
EPA

### Mycotoxin Testing

Aflatoxin
Vomitoxin
Zearalenone
Ochratoxin
Fumonisin

### Speciation

Beef/ Pork/ Poultry
Ruminants

### Rancidity

Peroxide Values
Free Fatty Acids
Hexanal
TBA

### Others

Sorbic Acid
Benzoic Acid
Viscosity
BHA / BHT
Nitrite/ Nitrates
Acidity
Chloride
Iodine
Iodine Value
Minerals (Metals)
Heavy Metals
pH
Water Activity

Maxxam is the Canadian market leader in analytical services and solutions to the energy, environmental, food and DNA industries and a member of the Bureau Veritas Group of companies – a world leader in testing, inspection and certification services. We support critical decisions made by our customers through the application of rigorous science and the knowledge and expertise of our over 2500 employees.

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