



**Labcare**  
de Colombia



# QMAS

## Meat & Fish

[lgcstandards.com/AXIO](http://lgcstandards.com/AXIO)

ISO/IEC 17043 | ISO/IEC 17025 | ISO 9001



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### Meat & Fish

The LGC AXIO Quality in Meat and Fish Analysis Scheme (QMAS) is intended for chemists and microbiologists working in, or providing analytical services to the meat, fish and shellfish processing industries.

International consumption of meat and fish in human diets has increased rapidly. Therefore the manufacturing processes need to be highly regulated, to help prevent food safety issues occurring.

Measures must be taken to prevent contamination with hazardous chemicals above specified limits, and to reduce the

number of microorganisms capable of causing human disease. Customers demand products that are authentic and genuine, preventing contamination from both deliberate fraud and accidental cross-contamination during processing.

Consumers want to be assured their food has been thoroughly tested by competent laboratories. EU Regulation 882/2004 requires official control laboratories to be accredited to ISO/IEC 17025 and use external means of monitoring performance such as proficiency testing.

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Test Material*	Analyte*
<b>Dried &amp; cured meat</b>	Ash, Carbohydrate, Dietary fibre, Energy, Fat, Moisture, pH, Phosphate, Protein, Salt, Sodium, Sugars (total)
<b>Lyophilised meat</b>	Nitrate, Nitrite.
<b>Meat</b>	Fat (total), Hydroxyproline, Mono-unsaturated fats, Poly-unsaturated fats, Saturates, Total trans fatty acids. Arsenic (total), Cadmium, Lead, Mercury, Phosphorus, Zinc, Sulfur dioxide, Ractopamine. Species authenticity to be screened for presence of other meat species.
<b>Precooked, processed &amp; raw meat</b>	Ash, Calcium, Carbohydrate, Dietary fibre, Energy, Fat, Moisture, pH, Phosphate, Potassium, Protein, Salt, Sodium, Sugars (total).
<b>Fish &amp; fish product</b>	Fish speciation, Energy; Saturates; Carbohydrate; Dietary fibre; Ash, Fat, Moisture, pH, Protein, Salt, Histamine, Trimethylamine (TMA), Total volatile nitrogen (TVN), Arsenic (total), Cadmium, Lead, Mercury, Phosphorus, Zinc.
<b>Shellfish</b>	Arsenic (total), Cadmium, Lead, Mercury, Phosphorus, Zinc, Chloramphenicol.

\* The full range and availability of test materials and analytes is determined on an annual basis and may be added or removed. For accredited and non-accredited status please see current application form/scheme description.

Microbiology*	Analyte*
<b>Lyophilised meat</b>	Enumeration of Coagulase-positive Staphylococci, Campylobacter species, Coliforms, Clostridium perfringens, Enterobacteriaceae, Escherichia coli, Lactic acid bacteria, Mould, Pseudomonas, Psychrotrophs, Sulphite-reducing clostridia, Total aerobic mesophilic count, Yeast. Detection of Listeria species, Listeria monocytogenes, Salmonella species.
<b>Lyophilised fish or shellfish &amp; Vial</b>	Enumeration of Coagulase-positive staphylococci, Enterobacteriaceae, Escherichia coli, Total aerobic mesophilic count. Detection of Salmonella species, Vibrio parahaemolyticus, Vibrio species.
<b>Lyophilised meat &amp; Vial</b>	Detection of Campylobacter species, E. coli O157 (non-toxigenic strain).
<b>Carcass rinsate</b>	Detection of Salmonella species, E. coli O157 (non-toxigenic strain).

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