



QBS

Soft Drinks & Fruit Juice

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The LGC AXIO Quality in Beverages Scheme (QBS) is specifically tailored for chemists and microbiologists working in the soft drinks and fruit juice industries (including carbonated drinks).

Soft drinks and fruit juices are widely consumed throughout the world and these global customers expect their beverages to always look and taste the same. The industry continuously aims to meet these high expectations. However, maintaining and confirming the quality and reliability of a given product is a considerable challenge for production facilities and quality control laboratories meaning that contamination

from microorganisms, chemicals and foreign matter could compromise product quality.

It is vital to prevent these types of errors as they can lead to the manufacture of out-of-specification product resulting in product wastage and disposal, lost production and the associated costs.

The LGC AXIO QBS scheme will allow laboratories to monitor analytical quality, helping to ensure that products are being manufactured to the highest standards.

Chemistry*	Analyte*
Apple juice	Patulin.
Carbonated drinks	Acidity (as citric acid monohydrate), Brix, Carbon dioxide, Fructose, Glucose, pH, Sucrose.
Carbonated drinks (degassed)	Acesulfame K, Aspartame, Benzoic acid, Caffeine, Cyclamic acid (as free acid), Saccharin (as free imide), Sorbic acid (as free acid), Sucralose, Sulfur dioxide (free, total).
Dilutable & ready to drink	Acesulfame K, Acidity (as citric acid monohydrate), Aspartame, Benzoic acid, Brix, Caffeine, Cyclamic acid (as free acid), Fructose, Glucose, pH, Saccharin (as free imide), Sorbic acid (as free acid), Sucrose, Sucralose, Sulfur dioxide (free, total).
Fruit juice	Acidity (as citric acid monohydrate), Brix, Calcium, Fructose, Glucose, pH, Phosphorus, Potassium, Magnesium, Sodium, Antimony, Cadmium, Iron, Lead, Tin, Zinc.
Liquid material	Vitamin C (Ascorbic acid).
Soft drink	Antimony; Arsenic; Cadmium; Iron; Lead; Tin; Zinc; Calcium; Phosphorus; Potassium; Magnesium; Sodium; Aluminium; Manganese; Copper; Selenium*. Vitamin B3 (Nicotinamide), Vitamin B5 (Pantothenic acid), Vitamin B6 (Pyridoxine), Vitamin B12 (Cyanocobalamin), Vitamin C (Ascorbic acid), Vitamin E (DL-alpha-Tocopherol), Vitamin B2 (Riboflavin), Total steviol glycosides, Rebaudioside A.
Smoothie	Energy; Fat; Saturates; Carbohydrate; Total Sugars; Fructose; Sucrose; Protein; Salt; Sodium; Dietary Fibre; pH.
Energy drink	Energy; Carbohydrate; Total Sugars; Fructose; Sucrose; Salt; Sodium; pH; Caffeine.

Microbiology*	Analyte*
Fruit juice	Enumeration of Lactic acid bacteria, Mould, Total aerobic mesophilic count, Yeast. Detection of Escherichia coli, Escherichia coli O157 (non toxigenic strain), Listeria monocytogenes, Salmonella species.
Liquid material (membrane filtration)	Enumeration of Lactic acid bacteria, Mould, Thermophilic acidophilic bacteria, Total aerobic mesophilic count, Yeast. Detection of Escherichia coli, Guaiacol producing thermophilic acidophilic bacteria, Listeria monocytogenes.
Soft drink	Enumeration of Lactic acid bacteria, Mould, Total aerobic mesophilic count, Yeast. Detection of Escherichia coli.

* 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.

