



JUICES, SOFT DRINKS AND SODAS PACKAGE

Parameter	Technique/Method
Black/Instant tea	
Moisture content	Gravimetric
Total ash	Gravimetric
Water soluble ash	Gravimetric
Alkalinity	Titrimetry
Acid insoluble ash	Gravimetry
Crude fiber	Gravimetric
Caffeine	HPLC
pH	Potentiometric
Water soluble extracts	Gravimetric
Pesticide Residues	
Organochlorine Pesticides (OCP)	GC-MS-MS
Organophosphorus Pesticides (OPP)	GC-MS-MS
Pyrethroids	GC-MS-MS
Fruit Juices and Soft drinks	
Chemistry	
Ethanol / Alcohol content	GC-FID
Acid insoluble ash	Gravimetry
Brix	Refractometer
Vitamin C	HPLC
Total soluble solids	Gravimetry
pH	Potentiometry
Appearance	Physical
Color	Physical
Taste	Physical
Foreign matter	Physical
Contaminants (Metals)	
Lead	GF-AAS
Arsenic	GF-AAS
Copper	MP-AES
Zinc	MP-AES
Tin	MP-AES
Pesticide Residues	
Organochlorine Pesticides (OCP)	GC-MS-MS
Organophosphorus Pesticides (OPP)	GC-MS-MS
Pyrethroids	GC-MS-MS
Microbiology	
Total Plate Count (TPC)	Pour plate
Staphylococcus aureas	Spread plate
Escherichia coli	Pour plate

Yeast and Moulds	Spread plate
Total coliforms	Pour plate
Lactic acid bacteria	Pour plate
Thermophilic Acidophilic Bacteria (TAB)	Pour plate
Alicyclobacillus spp	Pour plate
Guaiacal producing TAB	Pour plate