

**FOOD CHEMISTRY SECTION
CLIENTS' CHARTER (TPOR)
(as of 25 Sept 2021)**

Category – Composition / Nutritional Package

No	Type of Analysis	TPOR	Validated Sample Matrix
1	Basic Nutritional Package, including: <ul style="list-style-type: none"> • Energy (by calculation) • Carbohydrate (by calculation) • Protein / Nitrogen • Total Fat • Total Ash • Moisture 	20 days	General Food Products
2	Basic Nutritional Package + Nutritional Elements + Total Sugars Content + Total Dietary Fibre <ul style="list-style-type: none"> • Nutritional Elements, including: Sodium, Calcium, Potassium, Magnesium • Total Dietary Fibre (Note: No. of samples received per batch: 2. For more than 2 samples, TPOR > 25 days) • Total Sugars Content (HPLC) 	25 days	

Category – Composition / Nutrition

No	Type of Analysis	TPOR	Validated Sample Matrix
1	Proximate analysis: <ul style="list-style-type: none"> • Protein / Nitrogen • Total Fat • Total Ash • Moisture • Total Dietary Fibre 	10 days 10 days 10 days 10 days 20 days	General Food Products
2	Nutritional Elements by ICP , per element: <ul style="list-style-type: none"> • No sample preparation (digestion) • With sample preparation (digestion) Including: Sodium, Calcium, Potassium, Magnesium	10 days 20 days	-
3	Anions, Cations by Ion Chromatography , per element: <ul style="list-style-type: none"> • No sample preparation (digestion) • With sample preparation (digestion) Including: Chloride, Fluoride	10 days 20 days	-
4	HPLC-based: <ul style="list-style-type: none"> • Caffeine • Ascorbic Acid 	20 days 20 days	Beverages Beverages
5	Meter-based: <ul style="list-style-type: none"> • pH • Total Soluble Solids (°Brix) • Water Activity • Phosphorous 	5 days 5 days 10 days 10 days	Beverages Beverages Rice Processed Water
6	Miscellaneous Labelling: <ul style="list-style-type: none"> • Volume content • Net weight 	5 days 5 days	-
7	Freshness test <ul style="list-style-type: none"> • Kreis test • Peroxide value 	10 days 10 days	-
8	Non-Routine Test: <ul style="list-style-type: none"> • Acidity • Cholesterol 	5 days 20 days	-

Category - Food Additives

No	Type of Analysis	TPOR	Validated Sample Matrix
1	Permitted Food Colours	20 days	-
2	Preservatives: <ul style="list-style-type: none"> • Benzoic acid • Sorbic acid • Sulphur Dioxide • Sodium Nitrate • Sodium Nitrite 	20 days	General food products General food products General food products Meat and meat products Meat and meat products
3	Artificial Sweeteners, per compound <ul style="list-style-type: none"> • Cyclamate • Saccharin • Aspartame • Stevioside 	20 days	-
4	Non-Routine Test: <ul style="list-style-type: none"> • Boric Acid 	10 days	-

Category - Food Contaminants

No	Type of Analysis	TPOR	Validated Sample Matrix
1	Non-permitted Food Colours	20 days	-
2	Aflatoxin <ul style="list-style-type: none"> • Aflatoxins B1, B2, G1 and G2 	20 days	<ul style="list-style-type: none"> • Corn, Nuts, Nut Products (Solid Sample) • Corn, Nuts, Nut Products (Oil Sample) • Chili Pepper, Paprika & Red Pepper • Rice
3	Ochratoxin	20 days	<ul style="list-style-type: none"> • Cereal-based Products • Coffee and Coffee Products • Chili and Chili Products
4	Biotoxin <ul style="list-style-type: none"> • Paralytic Shellfish Poisoning (PSP) • Amnesic Shellfish Poisoning (ASP) • Diarrhetic Shellfish Poisoning (DSP) 	20 days	-
5	Steroids (Qualitative) <ul style="list-style-type: none"> • Tadalafil • Sildenafil • Vardenafil 	25 days	-
6	Slimming agents <ul style="list-style-type: none"> • Sibutramine 	25 days	-
7	Scombroid Toxin <ul style="list-style-type: none"> • Histamine 	10 days	<ul style="list-style-type: none"> • Seafood and Seafood Products
8	Formaldehyde	10 days	-
9	Heavy Metals and Trace Elements, per element, by ICP: <ul style="list-style-type: none"> • No sample preparation • With sample preparation (digestion) Including: Lead, Arsenic, Tin, Cadmium, Aluminum, Copper	10 days 20 days	<ul style="list-style-type: none"> • Processed Drinking Water • General Food Products
10	Heavy Metals and Trace Elements, per element, by AAS: <ul style="list-style-type: none"> • No sample preparation 	10 days 20 days	<ul style="list-style-type: none"> • Processed Drinking Water • General Food Products

	<ul style="list-style-type: none"> • With sample preparation (digestion) <p>Including: Lead, Cadmium, Mercury</p>		
11	<p>Other tests:</p> <ul style="list-style-type: none"> • Benzene in Beverages • Melamine, Cyanuric acid, Ammeline and Ammelide • Food alerts 	<p>20 days</p> <p>25 days</p> <p>25 days</p>	-

Category - Food Residues

No	Type of Analysis	TPOR	Validated Sample Matrix
1	Parasite Treatment Residue Anthelmintics (Evamectin)	10 days	-
2	Dyes (Antimicrobial Residue) <ul style="list-style-type: none"> • Malachite Green • Leucomalachite Green 	10 days	-
3	Veterinary Drugs Residue, using ELISA <ul style="list-style-type: none"> • Chloramphenicol • Nitrofurans (AOZ) • Nitrofurans (AMOZ) 	10 days	<ul style="list-style-type: none"> • Seafood and Seafood Products
4	Pesticide Residue, per group, using GC <ul style="list-style-type: none"> • Organophosphorus (OP) • Synthetic Pyrethroid (SP) • Organochlorine (OC) • Dithiocarbamates (Dithio) 	5 days (For Screening) Additional 10 days (For Confirmation & Quantification)	<ul style="list-style-type: none"> • Fresh Fruits and Vegetables (for OP & SP)
5	Multi Residue Pesticide, using LCMS	5 days (For Screening) Additional 10 days (For Confirmation & Quantification)	<ul style="list-style-type: none"> • Fresh Fruits and Vegetables

Category – Halal / Authentication

No	Type of Analysis	TPOR	*Validated Sample Matrix
1	DNA-based species identification, by PCR Techniques: <ul style="list-style-type: none"> • Pork • Chicken • Sheep • Beef • Horse 	Validated sample matrix: 15 days Non-validated sample matrix: 30 days	<ul style="list-style-type: none"> • Meat and meat-based product • Cereal and cereal-based product • Dairy based product • Cocoa • Tea
2	Alcohol content, per alcohol: <ul style="list-style-type: none"> • Ethanol • Methanol • Propanol 	10 days	<ul style="list-style-type: none"> • Food products • Beverages
3	Pig skin identification	5 days	<p align="center">-</p>
4	Pig bristle identification	5 days	<p align="center">-</p>
5	Protein-based identification-ELISA: <ul style="list-style-type: none"> • Porcine Protein Detection 	10 days	<ul style="list-style-type: none"> • Gelatin and gelatin-based product
6	Carminic Acid using HPLC	20 days	<ul style="list-style-type: none"> • General Food Products

*The method has been accredited for the stated sample matrix