

RWANDA FDA Rwanda Food and Drugs Authority **Effective Date:/2024**

TEST PARAMETER REQUIREMENTS FOR PROCESSED FOOD REGISTRATION

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S/N	Product category	Product Sub-category and/or description	Key test	t parameters
			Microbiology	Physicochemical
1	Cereal and cereal	Milled rice	NA	1. Moisture content
	based products			2. Broken kernels
				3. Live pests
				4. Heavy metals: Lead (Pb)
		- Grain flour; including wheat flour, milled	1.Total viable count (TVC)	1. Moisture content;
		maize (corn) flour, milled sorghum flour,	2. Salmonella spp. (for instant	2. Total Aflatoxin;
		millet flour, barley and other grains;	cereals)	3. Aflatoxin B1;
		- Processed cereal-based products; such	3. Escherichia coli (for instant	4. Crude protein (wheat flour)
		as pastas, noodles and like products;	cereals)	
		breakfast cereals such as cornflakes, puffed	4. Staphylococcus aureus (for	
		grains, oats, muesli, instant grains; groats,	instant cereals)	
		semolina, breads and grain dough	5. Bacillus <i>cereus</i> (for cooked	
		products; maize/corn starch; etc.;	cereals)	
		excluding snacks such as chips, cornmeal		
		porridge, and cooked packaged maize;		
		Other maize/corn derived products; ssuch	1. Total aerobic count (TVC)	1. Total Aflatoxin
		as cornmeal porridge, and cooked packaged		2. Aflatoxin B1
		maize)		
		Fortified cereal based food products for	1. Total aerobic count (TVC)	1. Moisture content,
		old children and adults	2. Escherichia coli	2. Acid Insoluble Ash

			3. Salmonella spp	3. Vitamin A
			Summerican Spp	4. Minerals : Iron and Zinc
			_	6. Aflatoxin B1
2	Processed roots,	Dried, Cooked, Fried and Flours;	1. Total aerobic count (TVC)	1. Moisture content (for dried and
	tubers and	excluding cassava products	2. Yeast and moulds	flours and products)
	plantains	5 1	AX	2. Peroxide value (for fried products)
	F	Frozen products	1. Total aerobic count (TVC)	N/A
		P	2. Yeast and moulds	
		Canned or bottled (pasteurized) or retort	1. Total aerobic count (TVC)	N/A
		pouch	2. Clostridium perfringens	
		Cassava products; including cassava flour,	1. Yeast and moulds (for flours	1. Moisture content
		Cassava chips and crisps, Cassava wheat	and chips)	2. Heavy metals : Lead (Pb)
		composite flour, etc.	2. Total aerobic count (TVC)	3. Hydrogen cyanide (HCN)
			for crisps	4. Peroxide Value (for crisps)
		Processed Legumes, Pulses and Seeds and	1. Total aerobic count (TVC)	1. Moisture content for dried, roasted
		their products; such cooked, Dried,	2. Yeast and moulds	products
		Canned, Frozen; excluding soybeans.	3. Listeria monocytogens (for	2. Acid insoluble ash for flour
			frozen products)	products
				3. pH for canned products
				4. Peroxide value for roasted
				products
				5. Total aflatoxin for ground nut and
				peanut products
3	Pulses, seeds and	Processed Soybean and soy-based	1. Total aerobic count (TVC)	1. Moisture Content (for soy curds,
	nuts-based	products; such as Soy Protein products such	2. Escherichia coli	texturized soy proteins, soy protein
	products	as Tofu, Soy Milk, Edible full fat Soy Flour;		flours and soy imitation meat)
		excluding Edible soybeans oil.		2. Protein content
				3. Acid Insoluble ash for Edible full
				fat soy flour

	1	N. CON	1 T 1 1 1 1 1 (TY (C))	
		Milk powder and cream powder products	1. Total viable count (TVC)	1. Moisture content
			2. Escherichia coli	2. Aflatoxin M1
			3. Staphylococcus aureus	3. Milk fat
			4. Salmonella spp.	
4	Processed Milk	UHT Milk products	1. Total viable count (TVC)	1. Aflatoxin M1
	Products/ Dairy		2. Salmonella spp.	2. Milk fat
	products		3. Staphylococcus aureus	3. Milk solid non-fat
		Fermented Milk Products; Including	1. Total viable count (TVC)	1. Aflatoxin M1
		Yoghurts, Cheese and Butter, Ghee, etc.	2. Escherichia coli	2. Milk fat
			3. Salmonella spp.	3. Free fatty acid as oleic acid (for
			4. Staphylococcus aureus	butter and ghee)
				4. Peroxide value (for ghee)
		Other processed milk products; including	1. Total viable count (TVC)	1. Aflatoxin M1
		Flavoured milk products, Pasteurized milk	2. Escherichia coli	2. Milk fat
		products, sweetened condensed milk	3. Salmonella spp.	3. Titratable acidity as lactic acid (for flavoured milk)
		products, Dairy Ices and Ice cream, etc.	4. Staphylococcus aureus	4. Milk solid non-fat (for Flavoured
			5. Listeria monocytogenes	and sweetened condensed milk
				products)
		Processed eggs such as dried, frozen, and	1. Total viable count (TVC)	1. Moisture content for dried and
		liquid egg products;	2. Salmonella spp.	powdered egg products
			3. Enterobacteriacea	
5	Egg products	Mayonnaise	1. Total viable count (TVC)	1. pH
			2. Salmonella spp.	
			3. Listeria monocytogenes	
		Processed fish products; such as dried,	1. Total viable count (TVC)	1. Formaldehyde
		frozen, fermented, marinated, pickled, salt-	2. Clostridium perfringens	2. Histamine (frozen, fermented,
		preserved, smoked, fried, canned or jarred,	(canned and jarred)	dried)
		and manufactured fish products such as fish	3. Staphylococcus aureus	3. Free fatty acids (smoked and
		sausages and fish pastes		fried)
				4. Mercury as Methyl mercury
		·		

			4. Listeria monocytogenes (for	5. Moisture content (dried)
			frozen products and fresh fish	
			sausages)	
			5. Vibrio spp.	
			6. Salmonella spp. (fresh fish	
			sausages)	
6	Fish products	Processed meat products; including	1. Total viable count (TVC)	1. Veterinary drugs
		cooked, smoked, dried, fermented, canned,	2. Escherichia Coli	
		salted; excluding poultry.	3. Salmonella spp.	
7	Meat products	Poultry products; including cooked,	1. Total viable count (TVC)	1. Veterinary drugs
		smoked, dried, fermented, canned, salted,	2. Salmonella spp.	
		etc.	3. Clostridium perfringens	
			(canned)	
			4. Campylobacter	
		Processed insect products; such as dried	1. Total viable count (TVC)	1. Moisture content
		insects, fried insects and manufactured	2. Escherichia Coli	2. Fatty acidity
		products such as powdered insects	3. Salmonella spp.	3. Total ash
			4. Staphylococcus aureus	4. Acid insoluble ash
			5. Campylobacter	
8	Edible insects and	Pre-packaged processed vegetable	1. Total viable count (TVC)	1. Moisture content;
	grubs products	products ; dried and other ways of industrial	2. Escherichia Coli	2. Acid insoluble ash
		processing, excluding starchy and sugary	3. Salmonella spp.	3. Hydrocyanic acid for Isombe
		roots and tubers	4. Clostridium botulinum	4. Tomato soluble solids for tomato
		Y	(canned)	concentrate
			5. Yeast and mould	5. Pesticide residues for tomato
				products
9	Processed	Dried fruits of any kind; processed	1. Total viable count (TVC)	1. Moisture content
	vegetable	including dried, candied or fermented	2. Escherichia coli	2. Acid insoluble ash
	products		3. Salmonella spp.	4. Heavy metal: Lead (Pb)
		Y	4. Yeast and mould	

10	Processed fruit	Canned and jarred fruits including canned	1. Total viable count (TVC)	1. Heavy metals: Lead (Pb), Arsenic
	products	and jarred, pickled, preserved in vinegar	2. Escherichia coli	
		brine, etc. Excluding jams, marmalades, fruit	3. Clostridium botulinum	
		jellies	(canned)	
		Edible fats and oils; Oils, butters and	1. Yeast and mould (for butter	1. Peroxide value
		margarines derived from fruits such seeds	and margarines)	2. Acid value
		such as sunflower, rapeseed and soybean,		3. Sudan Dyes (for Palm Oil)
		and other plants such as palms, etc.;		4. Aflatoxin (for groundnut edible
		excluding olive oils; lards, tallows, fats,		oil)
		butters and oils of animal origin; as well as		5. Vitamin A for fortified edible fats
		blended edible oils.		and oils
11	Fats and oils	Olive Oils and Olive Pomace Oils		1. Peroxide value
				2. Total fatty acid composition
				3. Total sterols
		Edible fat and oils of animal origin	1. Total viable count (TVC);	1. Peroxide value
		Dough-based sweets;	1. Total viable count (TVC);	1. Acid insoluble ash
		Sweets made predominantly with dough—	2. Salmonella spp.	2. Moisture content (for dry biscuits,
		such as bakery and pastry products (fried	3. Yeast and moulds	crackers and cookies)
		and baked sweet doughs, laminated dough,	4. Escherichia coli	3. Peroxide value
		cakes, cookies, biscuit, crackers, waffles,		
		etc.) – which may also contain non-cereal		
		components such as creams, fillings and		
		toppings.		
12	Dough-based	Fruit- and nut-based sweet; Sweets made	1. Total viable count (TVC);	1. Total soluble solids
	products	predominantly from fruits or nuts, or in some	2. Staphylococcus aureus	
		cases vegetables – where these ingredients	3. Yeast and moulds	
		are processed with sugar (candied or	4. Clostridium botulinum	
		chocolate coated fruits, jams, marmalades,	(canned)	
		fruit jellies, etc.) – but which may also		
		contain other ingredients.		

13	Sweets and sugars	Solid Sugar and sugar products	NA	1. Moisture content
		These include white sugar, dextrose		2. Heavy Metals: Lead (Pb),
		anhydrous, dextrose monohydrate, Fructose		Arsenic (As)
		Lactose, Brown sugars		
		Other Sugars and Sugar Products	1.Total viable count (TVC)	1. Heavy Metals: Lead (Pb), Arsenic
		These include Syrups (maple syrup,	2. Enterobacteriacea	(As)
		molasses	3. Yeast and moulds	2. Moisture content for powdered
		and similar), Icing Sugar, maltodextrins		products
		(maltodextrin, dextrin and polydextrose) and		3. Polarisation °Z (for molasses)
		others (polyols, polyfructoses, etc.)		· · · · ·
		Honey	1. Yeast and moulds	1. Moisture content
				2. Sucrose content
				3. Hydroxymethylfurfur (HMF)
		Cocoa and chocolate products; these	1.Total viable count (TVC)	1. Moisture content
		include all variety of cocoa and chocolate	2. Enterobacteriacea	2. Total cocoa solids (for cocoa-
		products, including cocoa-based spreads and		based products)
		cocoa-and nut-based spreads. This category		
		covers products such as cocoa butter, cocoa		
		powder, fat-reduced cocoa powder,		
		powdered chocolate, sweetened cocoa		
		powder, chocolate, milk chocolate, family		
		milk chocolate, white chocolate, filled		
		chocolate and praline.		
13	Confectionery	Other confectionery; this group includes	1. Aerobic Plate Count	1. Moisture content
		breath freshening micro-sweets and chewing		2. Acid insoluble ash
		gum. It covers candies or sweets, other than		3. Heavy metal: Lead (Pb)
		products described in food category12. It		
		involves all types of products that primarily		
		contain sugar or not and may or may not		

		contain cocoa; such as lollies, gelatin/fruit		4
		gums, toffees, nougats,		
		Dry and powdered spices, herbs, and	1. Total viable count (TVC)	1. Moisture content
		condiments; herbs such as aromatic and	2. Escherichia coli	2. Acid insoluble ash
		dried herbs and flowers used as spices, etc.;	3. Salmonella spp.	
		and spices such as buds,		
		seeds, fruit, root and rhizome spices, etc);		
13	Spices and	Paste or Liquid Spices, Herbs	1. Total viable count (TVC)	1. Total insoluble ash
	condiments	and Condiments; Condiments, sauces and	2. Enterobacteriacea	
		relishes such as soy sauce, seasoning mixes,	3. Clostridium perfringens	
		bouillon tubes, bouillon powders, flavour		
		extracts, vinegars, salsas, pesto, chutneys,		
		etc.		
		Beers	1. Total coliforms	1. Ethyl alcohol content %, v/v
				2. pH
				3. Carbon dioxide, %, v/v
14	Alcoholic	Wines	1. Total viable count (TVC) (for	1. Ethyl alcohol content %,v/v
	Beverages	including still table wine, sparkling wine	wines with alcohol content below	2. Methanol for locally made mines
		and fortified wine	10% v/v)	3. Total Sulphur dioxide
				4. Total sugar as invert sugar
		- Banana based alcoholic beverages;	1. TVC	1. Ethyl alcohol content %, v/v
		- Urwagwa and related products, such as	2. Escherichia coli	2. Methanol content
		Inkangaza and Butunda;	3. Salmonella spp.	3. Total sugar as invert sugar
		- Malted sorghum, such as Ikigage,	4. Staphylococcus aureus	4. pH
		Inturire, and similar products of other		5. Total suspended solids
		cereals;		
		Plant flavoured alcoholic beverages		
		Distilled alcohol beverages;	NA	1. Ethanol content
		- including Liquors, Gin, Vodka, Rum,		2. Methanol content
		Whisky, Brandy, Cognac, Tequila,		3. Aldehydes as acetaldehyde

		portable spirits, unsweetened spirits, mixed		4. Higher alcohols as amyl alcohols
		drinks such as cocktails, punch, sangria,		5. Total esters as ethyl acetate
		Liqueur (alcoholic product made by		
		mixing or sweetening ingredients within		
		any spirit with for instance cream, milk or		
		milk products, fruit, wine, herbs and eggs),	AX	
		portable spirits, etc.	, 1	
		Neutral spirits	NA	1. Ethanol content
		1		2. Methanol content
				3. Volatile acidity
				4.Higher alcohols content
				5. Aldehydes as acetaldehyde
				6. Heavy metals : Lead (Pb)
		Drinking water; including bottled mineral	1. Total viable count (TVC)	1. Turbidity
		water, carbonated water, flavoured water and	2. Escherichia coli	2. pH
		fortified water.	3. Salmonella spp.	3. Free residue chlorine
				4. Total dissolved solids/
				conductivity
				5. Heavy metals: Lead (Pb)
15	Non-alcoholic	Soft drinks without caffeine; including	1. Escherichia coli	1. Brix in sugar sweetened
	beverages	carbonated soft drinks, flavoured water,	2. Salmonella spp.	carbonated soft drinks
		water-based-flavoured drinks, flavoured soft	4. Yeast and moulds	2. Alcohol content, for plant
		drinks, soft drinks with fruit content below		flavoured and carbonated products
		25% and other soft drinks such as functional		3. Sucrose
		drinks and drink mixes, etc.		4. Volume of carbonation for
				carbonated drinks
				5. pH
		Non-alcoholic carbonated drinks with	1. Escherichia coli	1. Caffeine
		Caffeine; including Energy Drinks,		2. Brix
		Electrolyte Drinks, etc.		3. Reducing sugar

		4. Carbon dioxide for carbonated
		drinks
		5. Heavy metals: Lead (Pb)
Fruit and vegetable drinks; drinks that	1. Escherichia coli	1. Brix at 20°C in sugar sweetened
consist of 25–100% fruit or vegetable juice,	2. Yeast and moulds	carbonated soft drinks
such as juices that do not contain any	2. Teast and modius	2. Ethanol content
ingredients other than the named source;		
fruit nectars (with minimum 25–50% fruit),		3. Sucrose
smoothies and fruit or vegetable juice		
concentrates, extracts, and powders	1 V 4 1 M	1. Moisture content
Coffee, Tea, herbal tea, cocoa, and hot	1. Yeast and moulds	
cereal-based beverages; including instant	2. Total viable count (TVC)	2. Heavy metals: Lead (Pb)
teas and infusions as well as powders based		
on teas, infusions and cocoa.	T 1 11 (TVG)	1 177
Infant Formula, Infant Formula for	1. Total viable count (TVC)	1. Vitamins: Vitamin A, Vitamin D3
special medical purposes, and Follow up	2. Salmonella spp.	(Cholecalciferol), Vitamin C
formula.	3. Enterobacteriacea	(Ascorbic acid), Vitamin B1
	4. Enterobacter sakazakii	(Thiamine), Vitamin B2
	(Cronobacter spp.)	(Riboflavin), Vitamin B3 (Niacin),
		Vitamin B6 (pyridoxine), Vitamin
		B9 (Folic acid), Vitamin B5
		(Pantothenic acid), Vitamin B12
		(Cyanocobalamine), Vitamin K1,
Y		Vitamin H (Biotin), Vitamin E (α-
		tocopherol)
		2. Minerals: Sodium, Potassium,
		Chloride, Calcium, Phosphorus,
		Magnesium, Iron, Iodine, Copper,
		Zinc, Manganese, Chlorine
		3. Selenium (for infant formula for

				. 1 1 1)
				special medical purposes)
				4. Fluoride
				5. L-carnitine
				6. Myo-inositol
				7. Energy
				8. Protein content (cows' milk, soy
				isolate)
				9. Carbohydrates
				10. Lipid content
				11. Lauric and myristic acids
				12. Trans fatty acids
				13. Aflatoxin M1
				14. Heavy metals: Lead, Chromium
				(for infant formula for special
				medical purposes), Molybdenum (for
				infant formula for special medical
				purposes)
				15. Melamine (powdered, liquid)
		$\langle V \rangle$		16. Moisture content (powdered)
				17. Taurine (if added)
				18. DHA (if added)
				19. Residues of antibiotics
				20. Dioxin
16	Foods for	Fortified and non-fortified processed	1. Total viable count (TVC)	1. Moisture content
	Particular	cereal-based food	2. Coliforms	2. Vitamins and minerals (if added)
	Nutritional Uses		3. Escherichia coli	3. Energy density
		^\ \ \ Y	4. Salmonella spp.	4. Protein content
			5. Staphylococcus aureus	5. Fat content
		X,	6. Bacillus cereus	6. Total aflatoxins
			7. Yeasts and moulds	7. Aflatoxin B1

			8. Clostridium Botulinum (if the	8. Fumonisin
			product contains honey or	9. Ochratoxin A
			maple syrup)	10. Heavy metals: Lead (Pb)
		Foods for weight reduction; Foods for	1. Coliforms	1. Energy content
		weight reduction including total daily diet	2. Escherichia coli	2. Total protein content
		and single meal replacements for weight	3. Salmonella spp.	3. Total fat
		reduction	4. Staphylococcus aureus	4. Linoleic acid, in the form of
			5. Bacillus cereus	glycerides
				5. Dietary fiber content
				6. Vitamins: Vitamin A, Vitamin D,
				Vitamin C (Ascorbic acid), Vitamin
				E; Vitamin B1 (Thiamine), Vitamin
				B3 (Niacin), Riboflavin, Vitamin
				B6, Folic acid, Vitamin B12;
				7. Minerals: Calcium, Phosphorus,
				Iron, Iodine, Magnesium, Copper,
				Potassium, Zinc, Sodium,
				8. Carbohydrates
		Soups	1. Total viable count (TVC)	1. Moisture content (if dehydrated)
		(Including dehydrated soup, canned and	2. Escherichia coli	2. Acid insoluble Ash
		bottled soups, and broths)	3. Salmonella spp.	3. Sodium chloride
			4. Clostridium Botulinum (for	
		Y	canned products)	
17	Composite dishes	Different composite products with	1. Total viable count (TVC)	1. Moisture content,
		different ingredients	2. Escherichia coli	2. Heavy metals: Lead (Pb)
18	Savory snacks	Crisps, curls and other snacks;	1. Total viable count (TVC)	1. Moisture content
		Fried or baked savoury chips prepared from	2. Escherichia coli	2. Peroxide value
		tubers or cereals, such as potato chips or	3. Yeast and moulds	3. Heavy metals: Lead, Cadmium

		corn chips; or other savoury snacks prepared	4
		from tubers or cereals.	
19	Food Additives	Different types of food additives	1. Total viable count (TVC) 1. Heavy metals (Pb)
			2. Yeast and moulds 2. Iodine for food grade salt