	LEBTRADE PORTAL	Code:	P51-F1
		Issue:	01
	LABORATORY INFORMATION CARD	Date:	23/03/2021
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#### QUALITY ORGANIZATION INFORMATION:

LABORATORY NAME	IRI (Industrial Research Institute)
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Kindly insert / download best representative picture and logo relevant to your organization



**UNIQUE VALUE PROPOSITION (UVP):** Briefly describe the services offered by your organization. Explain what differentiates your company's product(s) or service(s) from your competition (up to 3 sentences):  
The industrial research institute

Address	Street:	Building: Lebanese University Campus
	City: Hadath, (Baabda)	District:
Contact Person	Dr Bassam FRENNE/Dr. Joseph MATTA	Phone / Fax n°: T/ F : (05) 467831
E-mail address	<a href="mailto:info@iri.org.lb">info@iri.org.lb</a>	
Website	<a href="http://www.iri.org.lb">www.iri.org.lb</a>	
Opening hours	Monday – Friday: 8:00 am – 3:00 pm	
Average turn-around time		

#### FOOD ANALYSES

Test	Parameters tested	Method used
Physical	Hectoliter weight: Grain and flour. Cereals, pulses, feed, milled products and by- products in bulk and sac	Gravimetric
	Density	Gravimetric
	Refractive index	Refractometer
	pH	pH-meter
	Conductivity: Water	Conductometer
	Turbidity	Turbidimeter
	Alcohol content	Picnometer/hydrometer
Microbiology	Brix	hydrometer
	Preparation of samples: Food and animal feedstuffs, water for human consumption, waste water	Surface plating / Pour plating / Filtration / PCR
	Total bacterial count:	Surface plating / Pour plating / Filtration / TEMPO TVC



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	Food and animal feedstuffs, water for human consumption, waste water, cosmetics, wet wipes and baby diapers	
Salmonella:	Food and animal feedstuffs, water for human consumption, waste water, cosmetics, wet wipes and baby diapers	Qualitative method VIDAS, RT-PCR
Staphylococci:	Food and animal feedstuffs, water for human consumption, waste water, cosmetics, wet wipes and baby diapers	Surface plating / Pour plating / Filtration / MPN techniques / TEMPO STA
Coliforms:	Food and animal feedstuffs, water for human consumption, waste water, cosmetics, wet wipes and baby diapers	Surface plating / Pour plating / Filtration / MPN techniques / TEMPO CC
Yeasts and molds:	Food and animal feedstuffs, water for human consumption, waste water, cosmetics, wet wipes and baby diapers	Surface plating / Pour plate / Filtration / TEMPO YM
Sulfite-reducing bacteria:	Food and animal feedstuffs, water for human consumption, waste water, cosmetics, wet wipes and baby diapers	Pour plating / Filtration / MPN techniques
Escherichia coli:	Food and animal feedstuffs, water for human consumption, waste water, cosmetics, wet wipes and baby diapers	Pour Plating / Surface Plating / Filtration / TEMPO EC / MPN techniques
Control of stability of preserved and assimilated products:	Food and animal feedstuffs, water for human consumption, waste water, cosmetics, wet wipes and baby diapers	Pour Plating / Surface Plating / Filtration
Non-specific microorganisms:	Food and animal feedstuffs, water for human consumption, waste water, cosmetics, wet wipes and baby diapers	Pour Plating / Surface Plating / Filtration / RT-PCR
Pseudomonas spp :	Food and animal feedstuffs, water for human consumption, waste water, cosmetics, wet wipes and baby diapers	Pour Plating / Surface Plating / Filtration
Clostridium perfringens :	Food and animal feedstuffs, water for human consumption	Pour technique
Intestinal enterococci:	Food and animal feedstuffs, water for human consumption, wastewater	Pour Plating / Surface Plating / Filtration / MPN techniques
Listeria monocytogenes:	Food and animal feedstuffs	Qualitative Surface Plating
Enterobacteriaceae:	Food and animal feedstuffs	Pour Plating / Surface Plating / MPN techniques / TEMPO EB
Mesophilic lactic bacteria:	Food and animal feedstuffs	Enumeration technique
Psychrotrophic microorganisms:	Food and animal feedstuffs	Enumeration technique
E.coli O157:	Food and animal feedstuffs	Qualitative technique



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	GMO Screening for NOS terminator and 35S Promoter: Food and animal feedstuffs	RT-PCR
Chemical	Moisture: Food and animal feedstuffs	Gravimetric / Refractometer
	Ash: Food and animal feedstuffs	Gravimetric
	Fat: Food and animal feedstuffs	Gravimetric
	Fatty acid composition: Food and animal feedstuffs	GC
	Cholesterol: Food and animal feedstuffs	GC
	Protein: Food and animal feedstuffs	Kjeldahl
	Sodium: Food and animal feedstuffs	AAS
	Sugars: Food and animal feedstuffs	Gravimetric
	Carbohydrates: Food and animal feedstuffs [not applicable for food which has a reduced energy content (where sugars are replaced by sweeteners)]	Gravimetric
	Calories: Food and animal feedstuffs [not applicable for food which has a reduced energy content (where sugars are replaced by sweeteners)]	Gravimetric
	Fiber: Food and animal feedstuffs	Gravimetric
	Phosphorous: Food and animal feedstuffs	UV Spectrophotometer
	Vitamins: Food and animal feedstuffs	HPLC / Titration
	Aflatoxins: Food and animal feedstuffs	ELISA and HPLC
	Ochratoxins: Food and animal feedstuffs	ELISA
	Ochratoxin A: Food and animal feedstuffs	HPLC
	Pesticides residues (for fruits and vegetables only): Food and animal feedstuffs	GC-MS
	Iron: Food and animal feedstuffs, water for human consumption, waste water	AAS / UV Spectrophotometer
	Calcium: Food and animal feedstuffs, water for human consumption, waste water	AAS / Titration / Gravimetric
	Chloride: Water for Human Consumption, wastewater	Titration
pH: Water for Human Consumption, wastewater	pH-meter	
Conductivity: Water for Human Consumption, wastewater	Conductivity meter	
Iodine: Vegetable oils	Titration	
Iodine: Vegetable oils	Titration	



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	UV extinction: Vegetable oils	UV Spectrophotometer
	Peroxide value: Vegetable oils	Titration
	Experimental milling: Grain and flour. Cereals, pulses, feed, milled products and by- products in bulk and sac	Specific reference mills Buhler MLU 202
	Moisture: Grain and flour. Cereals, pulses, feed, milled products and by- products in bulk and sac	Gravimetric
	Protein: Grain and flour. Cereals, pulses, feed, milled products and by- products in bulk and sac	Digestion, distillation and titration
	Ash: Grain and flour. Cereals, pulses, feed, milled products and by- products in bulk and sac	Gravimetric
	Purity of grains: Grain and flour. Cereals, pulses, feed, milled products and by- products in bulk and sac	Conical divider, set of standard sieves
	Hectoliter weight: Grain and flour. Cereals, pulses, feed, milled products and by- products in bulk and sac	Gravimetric
	Farinograph and Extensograph: Grain and flour. Cereals, pulses, feed, milled products and by- products in bulk and sac	Brabender equipment - Germany
	Alveograph: Grain and flour. Cereals, pulses, feed, milled products and by- products in bulk and sac	Chopin equipment- France
	Falling number: Grain and flour. Cereals, pulses, feed, milled products and by- products in bulk and sac	Perten instruments- Sweden
	Gluten: Grain and flour. Cereals, pulses, feed, milled products and by- products in bulk and sac	Perten instruments - Sweden
	Zeleny sedimentation: Grain and flour. Cereals, pulses, feed, milled products and by- products in bulk and sac	Brabender mill.
	Sampling: Grain and flour. Cereals, pulses, feed, milled products and by- products in bulk and sac	Pneumatic sampler, conical probes, pelican sampler
	Chemical Oxygen Demand: Water and waste water	Titration
	Total Kjeldahl Nitrogen: Water and waste water	Kjeldahl
	Total suspended solids: Water and waste water	Gravimetric
Nutritional	Fat	Gravimetric
	Fat composition (Saturated, unsaturated, Trans)	GC
	Cholesterol	GC
	Protein	Kjeldahl
	Carbohydrates	Gravimetric
	Sugars	Gravimetric/HPLC
	Crude Fibers/dietary fibers	Gravimetric
	Vitamins	Titration/HPLC
Minerals	Titration/Atomic absorption/Spectrometry	
Calorific value	Bomb calorimeter	
Mycotoxins	Aflatoxin B1, B2, G1, G2	HPLC



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	Total Aflatoxin	ELISA
	Ochratoxin A	HPLC/ELISA
	Zearalenone	ELISA
	Deoxynivalenol	ELISA
Vitamins Additives	Vitamin C: Foods and feedstuff	Titrimetric
	Vitamin A: Foods and feedstuff	HPLC
	Vitamin D2 & D3: Foods and feedstuff	
	Vitamin E: Foods and feedstuff	
Oil testing	UV extinction: Vegetable oils	UV Spectrophotometer
	Iodine: Vegetable oils	Titration
	Peroxide value: Vegetable oils	Titration
	Fatty acid composition: Vegetable oils	GC
Sugar Lab	Glucose, Fructose, sucrose, lactose: Honey, Chocolate, and other foodstuff	HPLC
Food Toxins & Allergens	Gluten: processed and non-processed foods	Immunochemical test
GMO	GMO Screening for NOS terminator and 35S Promoter: Food and animal feedstuffs	RT-PCR
Heavy Metals	Lead, Mercury, Tin, Arsenic, Antimony, Chromium, Manganese, Nickel, Barium, Molybdenum, Cobalt, Silver, Bismuth, Aluminum, Vanadium, Selenium	Atomic Absorption
Agrochemicals		
Contaminants		
Antibiotic residues	Chloramphenicol	HPLC
Pesticides residues	Organophosphorous and Organochlorine pesticides	QUECHERS
Soil	pH	pH meter
	Nitrogen	Kjeldahl
	Phosphorus	Spectrometric/gravimetric
	Potassium	Atomic absorption
	Calcium	Gravimetric
	Trace elements	Atomic Absorption
	Moisture	Gravimetric
Others	Colorants: E102, 104, 110, 122, 123, 124, 127, 129, 133	HPLC
	Preservatives: Sorbates, Benzoates	HPLC
Comments		

**ACCREDITATION INFORMATION:**

**ISO 17025 ACCREDITED**




yes

no

Scope and validity of accreditation:

Accreditation body: The ANSI National Accreditation Board ANAB (29/8/2022)

Kindly attach a copy of the certificate: <http://www.iri.org.lb/images/accreditation/ISO%2017025%20CERTIFICATE%20SCOPE%202021.pdf>

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**Other certification(s):**



Please Specify: ISO 17020

**Proficiency testing list if applicable:**

**OTHER REQUIRED INFORMATION:**

- **Get in Touch:** Contact the lab for further inquiry (sampling preparation and condition / Request a quotation / Analysis Request Form ...)