



## *MICROBIOLOGICAL ANALYSIS*

<b>Product</b>	<b>TAT</b>	<b>Method</b>
<b>(FOOD)</b>		
<i>Bacillus Cereus</i>	5 days	ISO 7932
<i>Clostridium Perfringens</i>	5 days	ISO 7937
<b>Coliforms</b>	3 days	ISO 4832
<i>Escherichia Coli (E. Coli)</i>	2 days	ISO 16649-2
<b>Enterobacteriace</b>	3 days	ISO 2528-2
<b>Enterococci</b>	5 days	Compendium 2001
<b>Fecal Streptococci</b>	5 days	Compendium 2001
<i>Listeria sp</i>	6 days	ISO 11290-1
<i>Listeria monocytogenes</i>	6 days	ISO 11290-1
<i>Pseudomonas sp</i>	4 days	ISO 13720
<i>Salmonella sp</i>	6 days	ISO 6579
<i>Shigella sp</i>	6 days	Compendium 2001
<i>Staphylococcus aureus</i>	4 days	ISO 6888-1
<b>Spore Former ( Anaerobic)</b>	3 days	ISO 4833
<b>Spore Former (Aerobic)</b>	3 days	ISO 4833
<b>Sulfite Reducing Bacteria (Spore)</b>	3 days	ISO 15213
<b>Thermo Tolerant Coliform Bacteria</b>	3 days	NMKL 1996 3 <sup>rd</sup> Edition
<b>Total Plate Count</b>	3 days	ISO 4833
<b>Total anaerobic bacteria</b>	3 days	ISO 4833 modified
<b>Warm or parasite detection</b>	2 days	Microscopic examination
<b>Yeasts &amp; Moulds</b>	3 days	ISO 21527 modified



<b>(WATE)</b>		
<b>Coliforms</b>	3 days	SMWW 2012
<b>Escherichia Coli (E. Coli)</b>	2 days	SMWW 2012
<b>Fecal Coliform</b>	3 days	SMWW 2012
<b>Fecal Streptococci</b>	5 days	SMWW 2012
<b>Legionella</b>	14 days	ISO 11731-2
<b>Pseudomonas aeruginosa</b>	5 days	SFS EN 12780
<b>Total Plate Count at 30 °c</b>	3 days	ISO 4833
<b>Protozoa</b>	<b>3 days</b>	<b>SMWW 2012</b>

**TAT** is the number of working days necessary for sample analysis. All tests methods mentioned above are the latest updated versions.

### *Mycotoxin and Toxin Analysis*

<b>Product</b>	<b>TAT</b>	<b>Method</b>
<b>(FOOD)</b>		
<b>Aflatoxin total (G1,G2;B1;B2)</b>	4 days	Elisa
<b>Afflation B1</b>	5 days	Elisa
<b>Aflatoxin M1</b>	3 days	Elisa
<b>DON</b>	3 days	Elisa
<b>Z toxin</b>	<b>3 days</b>	<b>Elisa</b>

### *Contamination; Risk; Special Food Analysis*



<b>Product</b>	<b>TAT</b>	<b>Method</b>
Fatty Acid composition	10 days	Elisa
Flash point	10 days	Elisa
Fructose and glucose content	10 days	Elisa
Gluten allergen	10 days	Elisa
Hydroxy-methyl-furfural HMF	10 days	Elisa
Lard and lard derivatives	4 days	EPA
Pesticide residue	10 days	GCMSMS
Radio Activity	10 days	AOAC
Tri-nitrogen amines	10 days	AOAC
Histamine.	5 days	AOAC
Total Volatile Nitrogen content (T.V.N),	10 days	AOAC
Thiobarbituric acid (T.B.A)	10 days	AOAC
Acid detergent fiber (ADF)	10 days	AOAC
COLD Test	10 days	AOAC
NDF	5 days	AOAC
Nitrate ( NO3)	10 days	AOAC
Nitrogen content	5 days	AOAC
non-fats milk solids	10 days	AOAC
P2O5	5 days	AOAC
Particle size	4 days	AOAC
Phosphate (PO4)	5 days	AOAC
Phosphor	5 days	AOAC
SO2	8 days	AOAC



## *Authentication; adulteration And GMO analysis*

<b>Product</b>	<b>TAT</b>	<b>Method</b>
<b>(FOOD)</b>		
<i>Meat &amp; pork</i>	4 days	R-PCR
<i>Meat &amp; horse</i>	5 days	R-PCR
<i>Meat content %</i>	3 days	R-PCR (LOQ 20%)
<i>GMO</i>	<b>5 days</b>	<b>R-PCR</b>

## *Visual inspection & sensory evaluation*

<b>Product</b>	<b>TAT</b>	<b>Method</b>
<b>(FOOD)</b>		
<i>Test sample by attributed parameter</i>	2 days	<i>Visual or microscopic</i>
<i>sensory evaluation</i>	14 days	Expert testers
<i>physical parameters</i>	3 days	<i>physical</i>
<i>Particle size</i>	<b>2days</b>	<b>ASTM/ ES /AOAC</b>

## *CHEMICAL ANALYSIS*

<b>Product</b>	<b>TAT</b>	<b>Method</b>
<b>(EDIBLE OILS &amp; FATS)</b>		
<b>Acid Value</b>	2 days	AOCS
<b>Alkalinity</b>	2 days	AOCS



<b>Ash</b>	2 days	AOCS
<b>Cold Test</b>	2 days	AOCS /ES
<b>Free Fatty Acid (Acidity)</b>	2 days	AOCS/ ES/ ISO 660
<b>Impurities</b>	2 days	AOCS/ ES
<b>Iodine Value</b>	2 days	AOCS/ ES
<b>Moisture</b>	2 days	AOCS/ ES
<b>Peroxide Value</b>	2 days	AOCS/ ES
<b>Saponification Value</b>	2 days	AOCS/ ES
<b>Slip Melting Point</b>	2 days	AOCS/ ES
<b>Unsaponifiable Matter</b>	2 days	AOCS/ ES
<b>Color</b>	2 days	AOCS/ E.S
<b>Soap content</b>	2 days	AOCS/ E.S
<b>p-Anisidine value</b>	3 days	AOCS
<b>Rancidity</b>	2 days	B.S/ AOCS
<b>(SUGAR)</b>		
<b>Ash</b>	2 days	AOAC/ E.S
<b>Acidity in Honey</b>	2 days	ES
<b>Insoluble Matter</b>	2 days	ICUMSA/ ES(honey)
<b>Invert Sugar</b>	2 days	ES
<b>Loss on Drying</b>	2 days	ICUMSA (white sugar)
<b>Moisture in Honey</b>	2 days	AOAC/ ES
<b>Reducing Sugar ( Molasses)</b>	2 days	ICUMSA
<b>Reducing Sugars (White Sugar)</b>	2 days	ICUMSA
<b>Reducing Sugars (Honey)</b>	2 days	ES



<b>Sucrose</b>	2 days	AOAC
<b>Total Sugars as Invert (Molasses)</b>	2 days	AOAC
<b>Total Insoluble Solids (Honey)</b>	2 days	ES
<b>Total Solids (Molasses)</b>	2 days	ES
<b>(CEREALS &amp; CEREAL GRAINS)</b>		
<b>Acid Insoluble Ash</b>	3 days	ES
<b>Ash</b>	2 days	ICC 104/AOAC/ ES/ ISO
<b>Crude Fiber</b>	2 days	AOAC/ ES/ GAFTA
<b>Fat</b>	3 days	AOAC/ES
<b>Fat Acidity</b>	3 days	AOAC/ ES
<b>Moisture</b>	2 days	ICC110/ ISO712/ AOAC/ES/GAFTA
<b>pH Value</b>	2 days	AOAC
<b>Protein</b>	2days	AOAC/ES
<b>Wet Gluten</b>	2 days	ISO 7495/ ICC 106
<b>(ANIMAL FEED)</b>		
<b>Acid Insoluble Ash</b>	3 days	GAFTA
<b>Ash</b>	2 days	AOAC/ ES/ GAFTA
<b>Crude Fiber</b>	2 days	AOAC/ ES/ GAFTA
<b>Diameter</b>	2 days	By Micrometer
<b>Fat Content</b>	3 days	ISO 6492
<b>Moisture</b>	2 days	AOAC/ ES
<b>Oil Content</b>	3 days	AOAC
<b>Total Sugars as Invert</b>	2 days	AOAC
<b>Protein</b>	2days	AOAC/ES



Sucrose	2days	AOAC/GAFTA
Urease	2 days	GAFTA
<b>(MILK &amp; DAIRY PRODUCTS)</b>		
Acidity of Milk	2 days	AOAC/ NIRO
Acidity (Dairy Products)	2 days	ES
Acidity of Cheese	2 days	AOAC
Ash in Milk	2 days	AOAC
Ash (Dairy Products)	2 days	ES
Ash in Cheese	2 days	AOAC
Bulk Density in Milk Powder	2 days	NIRO
Chloride in Cheese	2 days	AOAC
Fat (Dairy Products)	2 days	AOAC/ES
Fat in Dried Milk	2 days	AOAC
Moisture in Milk Powder	2 days	NIRO
Moisture (Dairy Products)	2 days	ES
Moisture in Cheese	2 days	AOAC
Ph Value (Dairy Products)	2 days	ES
Salt (Dairy Products)	2 days	ES
Total Solids in Milk, Cream	2 days	AOAC
Total Solids in Milk	2 days	AOAC/ ES
Protein	2days	AOAC/ES
Total Solids not Fat in Milk	2 days	AOAC/ ES
<b>(HERBS &amp; SPICES)</b>		
Acid Insoluble Ash	3 days	AOAC



<b>Ash</b>	2 days	AOAC
<b>Crude Fiber</b>	2 days	AOAC
<b>Moisture</b>	2 day	AOAC
<b>Volatile oils</b>	4 days	AOAC
<b>Alcohols soluble Extract</b>	3 days	E.S
<b>(FRUITS &amp; VEGETABLES)</b>		
<b>Acidity</b>	2 days	AOAC/ ES
<b>Acidity in canned Vegetables</b>	2 days	AOAC
<b>Alkalinity of Ash in Fruits</b>	2 days	AOAC
<b>Ash</b>	2 days	AOAC/ ES
<b>Protein</b>	2days	AOAC/ES
<b>Crude Fiber in Fruits</b>	3 days	ES
<b>Impurities in Vegetables</b>	2 days	ES
<b>Moisture in Frozen potatoes (French Fries)</b>	3 days	AOAC
<b>Moisture in Molokhia</b>	2 days	ES
<b>Net Content of Frozen Fruits</b>	2 days	AOAC
<b>Net Weight in Vegetables</b>	2 days	ES
<b>Ph Value</b>	2 days	AOAC
<b>Salt in Vegetables</b>	2 days	ES
<b>Sodium Chloride in Vegetables</b>	2 days	AOAC
<b>Soluble Solids (Brix) in Fruits</b>	2 days	AOAC
<b>Soluble Solids (Brix) in Tomatoes</b>	2 days	AOAC
<b>Sucrose in Fruits</b>	2 days	AOAC
<b>Total Solids in Frozen Spinach</b>	2 days	AOAC





<b>Total Solids</b>	2 days	ES
<b>Total Sugar in Fruits</b>	2 days	ES
<b>(MEAT &amp; MEAT PRODUCTS)</b>		
<b>Ash</b>	2 days	AOAC/ ES
<b>Fat</b>	3 days	AOAC/ ES
<b>Moisture</b>	2 days	AOAC/ ES
<b>Salt</b>	2 days	AOAC
<b>Protein</b>	2days	AOAC/ES
<b>(NUTS &amp; NUTS PRODUCTS)</b>		
<b>Ash</b>	2 days	AOAC
<b>Fat</b>	2 days	AOAC
<b>Fiber</b>	2 days	AOAC
<b>Sodium Chloride</b>	2 days	AOAC
<b>Protein</b>	2days	AOAC/ES
<b>(DETERGENTS &amp; SOAPS)</b>		
<b>Active Matter in detergents</b>	2 days	ES
<b>Fat in soap and detergents</b>	2 days	ES
<b>Ph Value</b>	2 days	ES
<b>Total Chlorides in soap</b>	2 days	ES
<b>Total Free Alkali in soap</b>	2 days	ES
<b>Total Free Caustic Alkali in soap</b>	2 days	ES
<b>Total Insoluble Matter in Alcohol</b>	2 days	ES
<b>Water Insoluble matter in solid detergents</b>	2 days	ES
<b>Water content in soap</b>	2 days	ES



## (WATER & WASTE WATER)

<b>Acidity</b>	2 days	SMWW
<b>Alkalinity</b>	2 days	SMWW
<b>Calcium</b>	2 days	SMWW/ ES
<b>Chemical Oxygen Demand</b>	2 days	SMWW
<b>Chloride</b>	2 days	SMWW/ ES
<b>Conductivity</b>	2 days	SMWW/ ES
<b>Color</b>	2 days	Visual inspection
<b>Magnesium</b>	2 days	SMWW/ ES
<b>Ph Value</b>	2 days	SMWW/ ES
<b>Sulphate</b>	2 days	SMWW/ ES
<b>Total Dissolved Solids</b>	2 days	SMWW/ ES
<b>Total Hardness (Ca &amp; Mg)</b>	2 days	SMWW/ ES
<b>Total Soluble Solids</b>	2 days	SMWW/ ES
<b>Total Suspended Matter</b>	2 days	ES

**TAT** is the number of working days necessary for sample analysis.

### **Test Methods Definitions:**

**AOCS** : American Oil Chemists Society 2002/2003 5<sup>th</sup> Edition.

**AOAC** : American Official Methods of Analysis (AOAC International) 2006 10<sup>th</sup> Edition.

**ES** : Egyptian Standards

**GAFTA**: The Grain & Feed Trade Association

**ICC** : International Association for Cereal Chemistry.

**ICUMSA**: International Commission for Uniform Methods of Sugar Analysis.


**SMWW** : Standard Methods for the Examination of Water & Waste Water Analysis 2012 22<sup>th</sup> Edition




For more details regarding test methods, please refer to Customer Service.

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