

شهادة اعتماد Accreditation Certificate



المركز السعودي للاعتماد
Saudi Accreditation Center

يشهد المركز السعودي للاعتماد (SAAC) بأن
Saudi Accreditation Center (SAAC) Declare that

Motabaqah Foods Company
Address: Jeddah
Scope : Food and agricultural

شركة مطابقة للأغذية
العنوان: جدة
المجال : الغذائية والزراعية

قد حقق متطلبات المركز السعودي للاعتماد (SAAC) وتم اعتماده وفقاً لمتطلبات المواصفة القياسية
آيزو/ آي إي سي (2017) : 17025 (المتطلبات العامة لكفاءة مختبرات الفحص والمعايرة) وذلك في المجال الملحق بهذه الشهادة

Has met the Requirements of Saudi Accreditation Center (SAAC) and has been accredited in compliance

with ISO/IEC **17025:(2017)** (General requirements for the competence of testing and calibration laboratories) for the scope attached
with this Certificate

هذه الوثيقة مرسله من النظام الآلي ولا تحتاج إلى توقيع

للتحقق من صلاحيتها يرجى مسح رمز الاستجابة اسفل الصفحة



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N-T-00052



الاسم : شركة مطابقة للأغذية

رقم الشهادة : N-T-00052

تاريخ الانتهاء : 1445-06-20

تاريخ الاصدار : 1439-05-19

وصف المعدات المستخدمة	المواصفات المستخدمة	الاختبار	المواد/المنتجات المختبرة	م
Oven	Niro Atomiser, Analytical Methods for Dried Milk Products, 4th Edition, p12	Free Moisture	Milk Powders	1
Centrifuge, Boiling Water bath, Oven	ISO 1211/IDF 1:2010, ISO 7208/IDF 22:2008, ISO 7328/IDF 116:2008, ISO 1736/IDF 9:2008, ISO 2450/IDF 16:2008	Fat R.G	Dairy & Dairy Based Products	2
Shaker, Boiling Water bath, Oven	Netherlands Milk and Dairy Journal, 25, p33-41, 1971 , Netherlands Milk and Dairy Journal, 25, p42-51, 1971	Free Fat	Milk Powders , Milk	3
ICP MS	In-house: Hot Acid Digestion for food and Raw Materials (Elements for Analysis)	"ICP MS (Minerals and Elements)"	Food, Feed, Dairy & Raw Materials	4
ICP MS	"In-house: Hot Acid Digestion for food and Raw Materials (Heavy Metals)"	ICP MS (Minerals and Elements)	Food, Feed, Dairy & Raw Materials	5
ICP MS	In house: TMAH Digestion , ICP MS	ICP MS (Minerals and Elements)	Food, Feed, Dairy & Raw Materials	6
GC	In-house GC method	Sugar Profile	Food & Dairy Powders	7
Water Activity Meter	"AOAC 978.18 Operator's Manual For Aqua Lab.	Water Activity	Food & Dairy Products	8



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<p>Auto-pipette, Balance 2dp, Colony Counter, Incubator Large (400L), Microscope, Multi Channel Pipettor, Portable Bunsen Burner, Stomacher, Vortex Mixer, Water Bath</p>	<p>ISO 6611/IDF 94: 2004 , FDA BAM 18</p>	<p>Yeast and Moulds</p>	<p>Dairy and Dairy Products Meat and Meat Products Poultry and Poultry Products Fish, Seafood and Related Products Egg and Egg products Fruits and Vegetables Cereals, Nuts and Cereal Products Confectionary and Bakery Products Infants, children and certain categories of dietetic foods Tomato products, Spices and Condiments Beverages, fruit juice, tea and coffee Chocolate and candy products Animal Feeds Canned foods and ingredients for canning Environmental Surveillance</p>	<p>9</p>
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<p>Auto-pipette, Balance 2dp, Colony Counter, Incubator Large (400L), Microscope, Multi Channel Pipettor, Portable Bunsen Burner, Stomacher, Vortex Mixer, Water Bath</p>	<p>ISO 7932: 2004</p>	<p>Bacillus cereus</p>	<p>Dairy and Dairy Products Meat and Meat Products Poultry and Poultry Products Fish, Seafood and Related Products Egg and Egg products Fruits and Vegetables Cereals, Nuts and Cereal Products Confectionary and Bakery Products Infants, children and certain categories of dietetic foods Tomato products, Spices and Condiments Beverages, fruit juice, tea and coffee Chocolate and candy products Animal Feeds Canned foods and ingredients for canning Environmental Surveillance</p>	<p>10</p>
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<p>Auto-pipette, Balance 2dp, Colony Counter, Incubator Large (400L), Microscope, Multi Channel Pipettor, Portable Bunsen Burner, Stomacher, Vortex Mixer, Water Bath</p>	<p>ISO 21528-2: 2004 , APHA 8.631 - Petrifilm</p>	<p>Enterobacteriaceae</p>	<p>Dairy and Dairy Products Meat and Meat Products Poultry and Poultry Products Fish, Seafood and Related Products Egg and Egg products Fruits and Vegetables Cereals, Nuts and Cereal Products Confectionary and Bakery Products Infants, children and certain categories of dietetic foods Tomato products, Spices and Condiments Beverages, fruit juice, tea and coffee Chocolate and candy products Animal Feeds Canned foods and ingredients for canning Environmental Surveillance</p>	<p>14</p>
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Auto-pipette, Balance 2dp, Colony Counter, Incubator Large (400L), Microscope, Multi Channel Pipettor, Portable Bunsen Burner, Stomacher, Vortex Mixer, Water Bath	Microbiological Methods for the Meat Industry (MIMM) Chapter 7.3	Campylobacter detection	Dairy and Dairy Products Meat and Meat Products Poultry and Poultry Products Fish, Seafood and Related Products Egg and Egg products Fruits and Vegetables Cereals, Nuts and Cereal Products Confectionary and Bakery Products Infants, children and certain categories of dietetic foods Tomato products, Spices and Condiments Beverages, fruit juice, tea and coffee Chocolate and candy products Animal Feeds Canned foods and ingredients for canning Environmental Surveillance	15
Incubators, Colony counter, Balance 2 dp, Pipettor, Waterbath, Bunsen burner	IFU Method 12	Alicyclobacillus acidoterrestris	Beverages, fruit juice	16
Incubators, Colony counter, Balance 2 dp, Pipettor, Waterbath, Bunsen burner	APHA 9213 E , Membrane filtration	Pseudomonas aeruginosa	Drinking water	17
Incubators, Colony counter, Balance 2 dp, Pipettor, Waterbath, Bunsen burner	APHA 9230 C	Fecal Streptococci	Drinking water	18
Incubators, Colony counter, Balance 2 dp, Pipettor, Waterbath, Bunsen burner	APHA 9215 A	Heterotrophic plate count	Drinking water	19



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Incubators, Colony counter, Balance 2 dp, Pipettor, Waterbath, Bunsen burner	ISO 11866/IDF 170-1 (2005)	E. coli and Coliform Detection	Dairy and Dairy Products	20
Oven	AOAC 930.15, 925.10, 950.46, 925.45 , 935.29 , 925.30 , IDF 26:2004 , AS2300 1.1 (2008) Method B , ICC Standard 110/1	Moisture Dry Oven	Food, Feed & Dairy Products	21
Vacuum Oven	AOAC 969.38A, 934.06, 934.01, 945.43, 945.56, 925.40, 925.30, 925.09, 941.14, 925.45A, 926.12 , 927.05	Moisture Vacuum Oven	Food& Feed Products	22
Karl Fischer Titrator	BS 2511:1970, GEA Niro Total Moisture(KF Titration) analytical method A1d, IDF 23A:1988 , ISO 8534 , AOAC 977.10	Moisture Karl Fischer	Dried Milk Products & Anhydrous Fat Products , Cacao products	23
Foss Kjeltec	ISO 8968-1/IDF 20-1:2014 ,AS2300 1.2.1 ,AOAC 991.20 , 981.10 ,930.33 , 2001.11 , 988.05 ,955.04 ,920.87 , 920.103 , internal method via Kjeldahl	Nitrogen & Protein	Food, Feed & Dairy Products	24
Centrifuge, Boiling Water bath, Oven	ISO 1735/IDF 5:2004 , ISO 5543/IDF 127:2004 , BS 4401:Part 4:1970 , AOAC 948.15 , AOAC 945.55,AOAC 954.02	(Fat Acid Hydrolysis (SBR	Food, Feed & Protein Products	25
Furnace	AOAC 923.03 , 942.05 , 930.30 ,940.26 , AOAC 920.153 ,920.181 , BS 1743:1968 (Modified) ,ISO 5545/IDF 90:2008 , AOCS Ca 11-55 ,BS 1741:1988 (Modified) , AOAC 972.15	Ash	Food, Feed & Dairy Powders	26
Autotitrator	ISO 5943/IDF 88:2006, ISO 15648/IDF 179:2004 (modified), AOAC 971.27 ,IDF 88A:2006 , internal method by Autotitrator	Salt & Chloride	Food, Feed & Dairy Powders	27
HPLC	COST 91, 1986 (modified) , EN 12823-1:2000 , internal method	Vitamin A	Food, Feed & Dairy Products	28
HPLC	COST 91, 1986 , , Internal method	Vitamin E	Food & Feeds	29
HPLC	Royal ACI, Volume2, 1987 , Internal method	Vitamin B1	Food & Feeds	30
HPLC	Royal ACI, Volume2, 1987 , Internal method	Vitamin B2 , B3 , B6	Food & Feeds	31



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HPLC	JAOAC, Volume 75, 1992 , Food Chemistry94 626-631/ LC-DAD , AOAC 2012.22 , internal method	Vitamin C	Food & Feeds	32
pH Meter	AOAC 981.12:2005 Standard Methods for the Examination of Water and Waste Water, 23rd Edition, 4500-H +B , AS2300.1.6-2010	pH	water , Foods	33
Spectrophotometer	Standard Methods for the Examination of Water and Waste Water, 23rd Edition, 4500- NH3 (A, B, C)	Ammonia	Water	34
Conductivity meter	Standard Methods for the Examination of Water and Waste Water, 23rd Edition, 2510 B	Conductivity	Water	35
Nessler Tubes	Standard Methods for the Examination of Water and Waste Water, 23rd Edition, 2120 B	Colour	Water	36
GC	BP-2002 Determination of Ethanol (Appendix VIII F) (modified) , BP-Journal Chromatography 53 (1970)	Residual Alcohol	Pharmaceuticals and Foods	37
Turbidity meter	APHA 23rd Edition-2130B	Turbidity	Water	38
HPLC	In-house method V0201	Vitamin D3	Food & Feeds	39
GC	AOAC 970.51 ,933.08 , 970.50 , 994.10, 976.26	Cholesterol	Food & Dairy	40
HPLC	In-house HPLC V 1502	Vitamin K	Food & Feeds	41
calculation	AOAC 930.15,925.10,950.46,952.08,969,38,925.45 , 922.06 , ISO 8851-2/IDF 191-2;2004	Solid non fat	Dairy Products	42
calculation	ISO 6731/IDF 21:2010 , internal method	total solids	Food & Dairy Products	43



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<p>Auto-pipette, Balance 2dp, Colony Counter, Incubator Large (400L), Microscope, Multi Channel Pipettor, Portable Bunsen Burner, Stomacher, Vortex Mixer, Water Bath</p>	<p>ISO 11290-1:2017 , ELISA Method (Screen) FDA BAM (Confirmation)</p>	<p>Listeria monocytogenes</p>	<p>Dairy and Dairy Products Meat and Meat Products Poultry and Poultry Products Fish, Seafood and Related Products Egg and Egg products Fruits and Vegetables Cereals, Nuts and Cereal Products Confectionary and Bakery Products Infants, children and certain categories of dietetic foods Tomato products,Spices and Condiments Beverages, fruit juice, tea and coffee Chocolate and candy products Animal Feeds Canned foods and ingredients for canning Environmental Surveillance</p>	<p>44</p>
<p>Auto-pipette, Balance 2dp, Colony Counter, Incubator Large (400L), Microscope, Multi Channel Pipettor, Portable Bunsen Burner, Stomacher, Vortex Mixer, Water Bath</p>	<p>ELISA Method</p>	<p>E. coli 0157</p>	<p>Dairy and Dairy Products Meat and Meat Products Poultry and Poultry Products Fish, Seafood and Related Products Egg and Egg products Fruits and Vegetables Cereals, Nuts and Cereal Products Confectionary and Bakery Products Infants, children and certain categories of dietetic foods Tomato products,Spices and Condiments Beverages, fruit juice, tea and coffee Chocolate and candy products Animal Feeds Canned foods and ingredients for canning Environmental Surveillance</p>	<p>45</p>



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<p>Auto-pipette, Balance 2dp, Colony Counter, Incubator Large (400L), Microscope, Multi Channel Pipettor, Portable Bunsen Burner, Stomacher, Vortex Mixer, Water Bath ,ELISA</p>	<p>ISO 6579-1:2017 , ELISA Method</p>	<p>Salmonella spp</p>	<p>Dairy and Dairy Products Meat and Meat Products Poultry and Poultry Products Fish, Seafood and Related Products Egg and Egg products Fruits and Vegetables Cereals, Nuts and Cereal Products Confectionary and Bakery Products Infants, children and certain categories of dietetic foods Tomato products,Spices and Condiments Beverages, fruit juice, tea and coffee Chocolate and candy products Animal Feeds Canned foods and ingredients for canning Environmental Surveillance</p>	<p>46</p>
<p>Auto-pipette, Balance 2dp, Colony Counter, Incubator Large (400L), Microscope, Multi Channel Pipettor, Portable Bunsen Burner, Stomacher, Vortex Mixer, Water Bath</p>	<p>ISO 16649-2: 2001, APHA 9.935</p>	<p>Escherichia coli</p>	<p>Dairy and Dairy Products Meat and Meat Products Poultry and Poultry Products Fish, Seafood and Related Products Egg and Egg products Fruits and Vegetables Cereals, Nuts and Cereal Products Confectionary and Bakery Products Infants, children and certain categories of dietetic foods Tomato products,Spices and Condiments Beverages, fruit juice, tea and coffee Chocolate and candy products Animal Feeds Canned foods and ingredients for canning Environmental Surveillance</p>	<p>47</p>



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<p>Auto-pipette, Balance 2dp, Colony Counter, Incubator Large (400L), Microscope, Multi Channel Pipettor, Portable Bunsen Burner, Stomacher, Vortex Mixer, Water Bath</p>	<p>ISO 21528-2:2017 , APHA 8.935</p>	<p>Enterobacteriaceae detection</p>	<p>Dairy and Dairy Products Meat and Meat Products Poultry and Poultry Products Fish, Seafood and Related Products Egg and Egg products Fruits and Vegetables Cereals, Nuts and Cereal Products Confectionary and Bakery Products Infants, children and certain categories of dietetic foods Tomato products,Spices and Condiments Beverages, fruit juice, tea and coffee Chocolate and candy products Animal Feeds Canned foods and ingredients for canning Environmental Surveillance</p>	<p>48</p>
<p>Auto-pipette, Balance 2dp, Colony Counter, Incubator Large (400L), Microscope, Multi Channel Pipettor, Portable Bunsen Burner, Stomacher, Vortex Mixer, Water Bath</p>	<p>ISO 4833-2:2013, FDA BAM 3 , APHA 8.82 ,Petrifilm APHA 7. 72</p>	<p>Aerobic Plate Count</p>	<p>Dairy and Dairy Products Meat and Meat Products Poultry and Poultry Products Fish, Seafood and Related Products Egg and Egg products Fruits and Vegetables Cereals, Nuts and Cereal Products Confectionary and Bakery Products Infants, children and certain categories of dietetic foods Tomato products,Spices and Condiments Beverages, fruit juice, tea and coffee Chocolate and candy products Animal Feeds Canned foods and ingredients for canning Environmental Surveillance</p>	<p>49</p>



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<p>Auto-pipette, Balance 2dp, Colony Counter, Incubator Large (400L), Microscope, Multi Channel Pipettor, Portable Bunsen Burner, Stomacher, Vortex Mixer, Water Bath</p>	<p>APHA 5th Edition 2015 Chapter 10</p>	<p>Enterococci</p>	<p>Dairy and Dairy Products Meat and Meat Products Poultry and Poultry Products Fish, Seafood and Related Products Egg and Egg products Fruits and Vegetables Cereals, Nuts and Cereal Products Confectionary and Bakery Products Infants, children and certain categories of dietetic foods Tomato products, Spices and Condiments Beverages, fruit juice, tea and coffee Chocolate and candy products Animal Feeds Canned foods and ingredients for canning Environmental Surveillance</p>	<p>50</p>
<p>Auto-pipette, Balance 2dp, Colony Counter, Incubator Large (400L), Microscope, Multi Channel Pipettor, Portable Bunsen Burner, Stomacher, Vortex Mixer, Water Bath</p>	<p>APHA 27 , 2015</p>	<p>Thermophilic</p>	<p>Dairy and Dairy Products Meat and Meat Products Poultry and Poultry Products Fish, Seafood and Related Products Egg and Egg products Fruits and Vegetables Cereals, Nuts and Cereal Products Confectionary and Bakery Products Infants, children and certain categories of dietetic foods Tomato products, Spices and Condiments Beverages, fruit juice, tea and coffee Chocolate and candy products Animal Feeds Canned foods and ingredients for canning Environmental Surveillance</p>	<p>51</p>



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<p>Auto-pipette, Balance 2dp, Colony Counter, Incubator Large (400L), Microscope, Multi Channel Pipettor, Portable Bunsen Burner, Stomacher, Vortex Mixer, Water Bath</p>	<p>, FDA BAM 3 , APHA 23.512 , APHA 23</p>	<p>Mesophillic spore count</p>	<p>Dairy and Dairy Products Meat and Meat Products Poultry and Poultry Products Fish, Seafood and Related Products Egg and Egg products Fruits and Vegetables Cereals, Nuts and Cereal Products Confectionary and Bakery Products Infants, children and certain categories of dietetic foods Tomato products,Spices and Condiments Beverages, fruit juice, tea and coffee Chocolate and candy products Animal Feeds Canned foods and ingredients for canning Environmental Surveillance</p>	<p>52</p>
<p>Auto-pipette, Balance 2dp, Colony Counter, Incubator Large (400L), Microscope, Multi Channel Pipettor, Portable Bunsen Burner, Stomacher, Vortex Mixer, Water Bath</p>	<p>APHA 27 , 2015</p>	<p>Thermophillic spore count</p>	<p>Dairy and Dairy Products Meat and Meat Products Poultry and Poultry Products Fish, Seafood and Related Products Egg and Egg products Fruits and Vegetables Cereals, Nuts and Cereal Products Confectionary and Bakery Products Infants, children and certain categories of dietetic foods Tomato products,Spices and Condiments Beverages, fruit juice, tea and coffee Chocolate and candy products Animal Feeds Canned foods and ingredients for canning Environmental Surveillance</p>	<p>53</p>



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Auto-pipette, Balance 2dp, Colony Counter, Incubator Large (400L), Microscope, Multi Channel Pipettor, Portable Bunsen Burner, Stomacher, Vortex Mixer, Water Bath.	ISO/TS 22964: 2017	Enterobacter zakasakii detection	Dairy and Dairy Products	54
Incubators, Colony counter, Balance 2 dp, Pipettor, Waterbath, Bunsen burner	ISO 11731-2:2017	Legionella pneumophilla and spp	water	55
Titration	AOCS Ja4-46 , AOCS Ja3-87	Insoluble matter	Oils and Lipids	56
Titration	ISO 6886	Oxidative value	Oils and Lipids	57
Viscometer	AOCS Ja 10-87	Viscosity	Oils and Lipids	58
Melting point apparatus	AOAC 920.157	Melting point	Oils and Lipids	59
Titration	AOAC 993.20	Iodine value	Oils and Lipids	60
Refractometer	AOAC 920.118, ISO 1739, ISO 6320	Refractive index	Oils and Lipids	61
Titration	ISO 660	Free fatty acid and Acid value	Oils and Lipids	62
Gravimetric	AOAC 975.13	Unsaponifiable Matter	Cocoa Butter	63
Gravimetric	Chocolate, Cocoa and Confectionary 1989	Fineness	Cacao products	64
HPLC	Leatherhead Food RA Analytical Methods Manual,2nd Edition	Sorbic acid	All Foods	65
HPLC	Leatherhead Food RA Analytical Methods Manual,2nd Edition	Benzoic acid	All Foods	66
ELISA	ELISA-Ridascreen R-Biopharm AG	Ochratoxin A	All Foods	67
Refractometer	ISO 1739 , Internal method	Refractive Index	All Foods	68
Sieves	ISO 2591-1	Particle Size	All Foods	69
Physical	GEA Niro Method A 4 a	Scorched Particles	Dairy and Dairy Products	70



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Gravimetric	Internal method	Density	All Foods	71
Gravimetric	ISO 8967/IDF 134	Bulk Density	Powdered Food	72
Spechtophotometer	GEA Niro Method No. A 21	Whey Protein Nitrogen Index (WPN)	Milk Powder	73
NIR	Internal method	Protein	Milk Powder	74
NIR	Internal method	Fat	Milk Powder	75
ELISA	ELISA-Ridascreen R-Biopharm AG	Aflatoxin M1	Milk and dairy products	76
NIR	Internal method	Ash	Feeds and forages	77
NIR	Internal method	Moisture	Feeds and forages	78
NIR	Internal method	Crude Protein	Feeds and forages	79
NIR	Internal method	Crude Fat	Feeds and forages	80
NIR	Internal method	ADF (Acid Detergent Fiber)	Feeds and forages	81
NIR	Internal method	NDF (Neutral Detergent Fiber)	Feeds and forages	82
NIR	Internal method	Crude Fiber	Feeds and forages	83
Gravimetric	Internal method	Acid insoluble ash	Feeds	84
Gravimetric	AOAC 2003.5	Crude Fat	Feeds, Cereal, Grains and Forages	85
ICP-MS	Internal method , EN 71-3	Specific migration of metal & elements	Food Contact Materials & Toys	86
Serology	ISO/TR 6579-3	Salmonella Serotyping	All Foods	87



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Gravimetric	EN 1186-3 , Internal method	Overall Migration by Total Immersion	Food Contact Materials	88
Gravimetric	EN 1186-9 , Internal method	Overall Migration by Article Filling	Food Contact Materials	89
UV-Spechtrophotometer	EN 1541	Formaldehyde	Paper and Board	90
UV-Spechtrophotometer	DIN 54603 E	Glyoxal Content	Paper and Board	91
HPLC	Internal method	Vitamin B5 - Panthothenic acid	Food & Feeds	92
HPLC	Internal method	Vitamin B7 - Biotin	Food & Feeds	93
HPLC	Internal method	Folic acid	Food & Feeds	94
HPLC	Internal method	Panthothenate	Food & Feeds	95
HPLC	Internal method	Vitamin B12 - Cyanocobalamin	Food & Feeds	96
GC	In-house based on JAOCS, 62, 1985	Fatty acids profile	Food & Dairy Powders	97
Calculation	ANZ Food Standards Code - Standard 1.2.8, FAO Chapter 1	Energy	Food & Dairy Powders	98
Calculation	ANZ Food Standards Code - Standard 1.2.8, FAO Chapter 1	Carbohydrates	Food & Dairy Powders	99
Incubators, Colony counter, Balance 2 dp, Pipettor, Waterbath, Bunsen burner	APHA 9223 B	E. coli count (MF)	Drinking Water	100
Incubators, Colony counter, Balance 2 dp, Pipettor, Waterbath, Bunsen burner	APHA 9223 B	Coliform count (MF)	Drinking water	101
Gravimetric	AOAC 963.15	Total Fat	Cacao products	102
Titration	AOAC 990.28	Sulfur dioxide	All Foods	103
Spectrophotometer	Phadebas (Based on JE Schade , DIN NORM10750)	Diastase Activity	Honey	104



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Titration	Internal Method (SOP AMJ551)	Titrateable Acidity	Food & Dairy Products	105
Titration	Internal Method (SOP AMJ559)	Determination of Titrateable Acidity of Fruit Products	Fruit Products	106
HPLC	Application note, Publication number 5991-2851EN	Caffeine	All Foods	107
ELISA	ELISA-Ridascreen R-Biopharm Kit Method (Sept 2016)	Determination of Total Aflatoxins	Foods and Feeds	108
Titration	AOAC 965.33:1969 & ISO 3960:2017	Peroxide value	Oils and Lipids	109
Titration	AOAC 965.20:1996 & ISO 3961:2018	Iodine value	Oils and Lipids	110
Titration	AOCS Cd3-25:2017	Saponification Value	Oils and Lipids	111
Titration	AOCS Ca 5a-40:2009	Free Fatty Acids	Oils and Lipids	112
Titration	AOCS Ca 3a-46:2011	Impurities	Oils and Lipids	113
Titration	Internal Method (SOP AMJ143v2:2017)	p-Anisidine value	Oils and Lipids	114
Titration	AOCS Ca 5a-40:2009	Acid value	Oils and Lipids	115
Pycnometer	Internal Method (SOP AMJ567 v04:2017)	Density	Liquids	116
Spectrophotometer	AOAC 980.23:1983	Hydroxymethyl Furfural (HMF)	Honey	117
HPLC	SOP AMJ581 v01:2019 based Agilent Application solution	Color additives: Acid blue – FCF, Ponceau 3R, Indigo Carmine E132, Fast Green FCF, Tartrazine E102, Amaranth E123, Sunset yellow FCF E110, Carmoisine E122, Ponceau 4R E124, Erthrosin B,	Food	118
Inspection	GSO 2360/2014 (E)	Filths and natural defects	Food	119



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Karl Fisher	ISO 6488:2021	Water content Karl Fischer Method	Tobacco and its Products	120
Gravimetric	APHA 2540C 23rd edition, 2017, TDS Meter	Total Dissolved Solids	Water	121
Gravimetric	APHA 2540D 23rd edition, 2017	Total Suspended Solids	Water	122
Calculation	APHA 2340B 23rd edition, 2017	Total Hardness	Water	123
HPLC	AMJ592 Aflatoxin by HPLC - FID with Immunoaffinity Column	Aflatoxin B1, B2, G1, G2, Total	Nuts, Food	124
HPLC	AMJ594 Ochratoxin A by HPLC – FID with Immunoaffinity Column	Ochratoxin A	Nuts, Food	125
Gravimetric	ISO 763:2003	Acid insoluble Ash	Oil and Lipids	126
Spectrophotometer	R-Biopharm Nitrate UV Method	Nitrite & Nitrate	Meat and meat products	127



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Incubator	Premi Test ® SP – NT/SP MINI	Antibiotic residue (Amoxicillin, Ampicillin, Pemicillin G, Cloxacillin, Oxacillin, Dicloxacillin, Cefquinome, Ceftiofur, Tylosin, Erythromysin, Lincomysin, Tilmicosin, Spiramycin, Chlortetracycline, Oxytetracycline, Doxycyline, Tetracycline, Demeclocycline, Sulphamethazine, Sulphadiazine, Sulphamethazole, Sulphaguanidine, Sulphadimethoxine, Sulphapyridine, Sulphamethoxypyridine, Sulphisoxazole, Sulphathiazole, Sulphachloropyridazine, Sulphamerazine, Sulphanilamide, Sulphaquinoxaline, Sulphametiozole, Sulfamethoxazole, Gentamicin, Streptomycin, Neomycine, Dihydrostreptomycin, Oxolinic acid, Enrofloxacin, Flumequine, Virginiamycin, Bacitracin, Zn-bacitracin, Colistin, Salinomycin, Monensin, Avilamycin, Trimethoprim, Florphenicol, Chloramphenicol, Narasin, Amprolium, Phosphomycine, Ronidazole, Furazolidone)	Meat, Honey, Dairy	128
Incubator	US FDA BAM Chapter 6 (2013)	Isolation and Detection of Shigella species	Food	129
Incubator	US FDA BAM Chapter 9 (2004)	Detection of Vibrio species	Food	130



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Incubator	ISO 15214:1998	Enumeration of Lactic acid bacteria	Food	131
Incubator	ISO 6888-3:2003	Detection of Staphylococcus aureus	Food	132
Incubator	ISO 15213:2003	Enumeration of Sulphite reducing clostridia	Food	133
Incubator	"APHA CMMEF 9.71 and 9.72, 4th Edition (2015)"	Total Coliform - MPN Method	Food	134
Incubator	APHA CMMEF 9.9, 4th Edition (2015)	E. coli - MPN Method	Food	135
ELISA	Solus Salmonella ELISA Kit Method Presumptive (Aug 2017), ISO 6579:2017 (Confirmation)	Detection & Confirmation of Salmonella spp.	All Foods, Environmental Swabs	136
ELISA	"Solus Listeria ELISA Kit Method Presumptive (Aug 2017), ISO 11290-1:2017 (Confirmation)"	Detection and Confirmation of Listeria spp.	All Foods, Environmental Swabs	137
LC-MS/MS/GC-MS/MS	AOAC 2007.1	Acephate, Acetamiprid, Acibenzolar-S-methyl, Aldicarb, Aldicarb sulfone, Aldicarb sulfoxide, Ametryn, Amitraz, Azoxystrobin, Benalaxyl, Bendiocarb, Benzoximate, Bifenazate, Bifenox, Boscalid, Bromuconazole I, Bromuconazole II, Butafenacil, Butocarboxim, Butoxyacarbonyl, Carbaryl, Carbendazim, Carbetamide, Carbofuran, Carbofuran-3 hydroxy, Carboxin, Chlorantraniliprole, Chlorfluazuron, Chloroxuron, Chlortoluron, Clofentezine, Clothianidin, Cyazofamid, Cycluron, Cymoxanil, Cyproconazole I, Cyproconazole	All Foods, Feeds, Forages, Tobacco	138



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II, Desmedipham, Diclobutrazol, Di
crotophos, Diethofencarb, Diflube
nzuron, Dimethoate, Dimethomor
ph I, Dimethomorph
II, Dimoxystrobin, Diniconazole, Di
notefuran, Diuron, Emamectin
benzoate, Epoxiconazole, Etacon
azole, Ethiofencarb, Ethiprole,
Ethirimol, Ethofumesate, Etoxazol
e, Famoxadone, Fenamidone, Fen
buconazole, Fenhexamid, Fenobu
carb, Fenoxycarb, Fenpyroximat, F
enuron, Fipronil, Flonicamid, Fluaz
inam,
Flubendiamide, Flufenacet, Flufen
oxuron, Fluomethuron, Fluoxastro
bin, Flusilazole, Flutriafol, Forchlorf
enuron, Formetanate, Fuberidazol
e, Furalaxyl, Furathiocarb, Hexaco
nazole,
Hexaflumuron, Hexythiazox, Imaz
alil, Imidacloprid, Indoxacarb, Ipco
nazole, Iprovalicarb
I, Isocarbofos, Isoprocarb, Isoprotu
ron, Kresoxim methyl, Linuron,
Lufenuron, Mandipropamid, Mefe
nacet, Mepanipyrim, Mepronil, Met
aflumizone, Metconazole, Methab
enzthiazuron, Methamidophos, M
ethiocarb, Methomyl, Methoprotry
ne, Methoxyfenozide,
Metobromuron, Metribuzin, Mevin
phosI, MevinphosII, Monocrotoph
os, Monolinuron, Moxidectin, Nebu
ron, Nitenpyram, Novaluron, Nuari
mol, Omethoate, Oxadixyl, Oxamyl
, Pencycuron,
Phenmedipham, Picoxystrobin, Pi
rimicarb, Procloraz, Promecarb, Pr
ometon, Prometryn, Propamocarb
, Propham, Propiconazole, Propox
ur, Pyracarbolid, Pyraclostrobin, P



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irimethanil,
Pyriproxifen,Quinoxifen,Rotenone,
Secbumeton,Siduron,Simetryn,
Spirodiclofen,Spiromesifen,Spiro
tetramat,Sulfentrazone,Tebufenozide,
Tebuthiuron,Teflubenzuron,
Temephos,Terbumeton,
Terbutryn,Tetraconazole,Thiabendazole,
Thiacloprid,Thiamethoxam,Thidiazuron,
Thiobencarb,Thiophanate-methyl,
Triadimenol,Trichlorfon,Tricyclazole,
Trifloxystrobin,Trifluthiuron,
Triticonazole,Vamidothion,Zoxamide,
1,1-Dichloro-2,2-bis(4-ethylphenyl)ethane,
2,3,5,6-Tetrachloroaniline,
2,4'-Methoxychlor,
2-Phenylphenol,
3,4-Dichloroaniline,
4,4'-Dichlorobenzophenone,
4,4'-methoxychlor
olefin,Acetochlor,Acrinathrin-2,
Aldrin,Allidochlor,alpha-BHC,
alpha-Endosulfan,Atrazine,Benfluralin,
beta-BHC,beta-Endosulfan,
Bifenthrin,Biphenyl,Bromfenvinphos,
Bromophos,Bromophos-ethyl,
Bromopropylate,Bupirimate,
Carbophenothion,Carfentrazone
-ethyl,
Chlorbenside,Chlorfenapyr,
Chlorfenson,Chlorobenzilate,
Chlorpyrifos,Chlorpyrifos-methyl,
Chlorthal-dimethyl,
Chlorthiophos-2,
Chlorthiophos-3,
Chlozolate,cis-Chlordane,cis-Nonachlor,cis-



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Permethrine, Clomazone, Cycloate, Cyprodinil, Di-allate-1, Di-allate-2, Diazinon, Dichlobenil, Dichlofluanid, Dieldrin, Dimethachlor, Diphenamid, Diphenylamine, Endosulfan ether, Endosulfan sulfate, Endrin, EPN, Ethalfluralin, Ethion, Etofenprox, Etridiazole, Fenarimol, Fenchlorphos, Fenproprathrin, Fenson, Fenthion, Fluazifop-P-butyl, Fluchloralin, Flucythrinate-1, Flucythrinate-2, Fludioxonil, Fluquinconazole, Flutolanil, Fonofos, gamma-BHC (Lindane), Heptachlor, Heptachlor-exo-epoxide, Hexachlorobenzene, Hexazinone, Iprodione, Isodrin, Isopropalin, lambda-Cyhalothrin, Leptophos, Malathion, Metalaxyl (Mefenoxam), Metazachlor, Methacrifos, Methoxychlor, MGK 264-1, MGK 264-2, Mirex, Myclobutanil, o,p'-DDD, o,p'-DDE, o,p'-DDT, Oxadiazon, p,p'-DDD, p,p'-DDE, Paclobutrazol, Pebulate, Penconazole, Pendimethalin, Pentachloroaniline, Pentachloroanisole, Pentachlorobenzene, Pentachlorobenzonitrile, Pentachlorothioanisole, Phorate, Phosalone, Piperonyl butoxide, Pirimiphos ethyl, Pirimiphos-methyl, Pretilachlor, Procymidone, Prodiamine, Profluralin, Propachlor, Propisochlor, Propyzamide, Protiofos, Pyrazophos, Pyridaben, Py



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		riproxifen,Quinalphos,Sulfotep,Sulprofos,tau-Fluvalinate-1,tau-Fluvalinate-2 ,Tebuconazole,Tebufenpyrad,Tecnazene,Tefluthrin,Terbacil,Terbufos,Terbuthylazine,Tetradifon,Tetramethrin-1,Tetramethrin-2 ,Tolclofos-methyl,Tolyfluanid,trans-Chlordane,Transfluthrin,trans-Nonachlor,trans-Permethrine,Triadimefon,Triadimenol-1, Triallate, Triazophos, Triflumizole, Trifluralin, Vinclozolin,		
Incubator	"APHA 9221B, 23rd Edition (2017)"	Enumeration of Total coliforms – MPN	Water	139
Incubator	"APHA 9221E, 23rd Edition (2017)"	"Enumeration of Fecal Coliforms – MPN"	Water	140
Incubator	"APHA 9221F 23rd Edition (2017)"	Enumeration of E. coli – MPN	Water	141
Incubator	APHA 9222B 23rd Edition (2017)	Enumeration of Total coliforms – Membrane Filtration	Water	142
Incubator	APHA 9222D 23rd Edition (2017)	Enumeration of E. coli - Membrane Filtration	Water	143
Kit	Internal Method (AMJ 581)	Free Chlorine	Water	144



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