

شهادة اعتماد Accreditation Certificate



المركز السعودي للاعتماد
Saudi Accreditation Center

يشهد المركز السعودي للاعتماد (SAAC) بأن
Saudi Accreditation Center (SAAC) Declares 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
ISO/IEC 17025(2017) (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



24/07/1448 : تاريخ الانتهاء / Expire Date

19/05/1439: تاريخ الاصدار / Issue Date

N-T-00052

مجال الاعتماد

الاسم : شركة مطابقة للأغذية

رقم الشهادة : N-T-00052

تاريخ الانتهاء : 1448-07-24

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
GC	In-house GC method	Sugar Profile	Food & Dairy Powders	4
Water Activity Meter	AOAC 978.18 Operator's Manual For Aqua Lab.	Water Activity	Food & Dairy Products	5



24/07/1448 : تاريخ الانتهاء / Expire Date

19/05/1439: تاريخ الاصدار / Issue Date

N-T-00052

<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>6</p>
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24/07/1448 : تاريخ الانتهاء / Expire Date

19/05/1439: تاريخ الاصدار / Issue Date

N-T-00052

Auto-pipette, Balance 2dp, Colony Counter, Incubator Large (400L), Microscope, Multi Channel Pipettor, Portable Bunsen Burner, Stomacher, Vortex Mixer, Water Bath	ISO 7932: 2004	Bacillus cereus	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	7
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24/07/1448 : تاريخ الانتهاء / Expire Date

19/05/1439: تاريخ الاصدار / Issue Date

N-T-00052

<p>Auto-pipette, Balance 2dp, Colony Counter, Incubator Large (400L), Microscope, Multi Channel Pipettor, Portable Bunsen Burner, Stomacher, Vortex Mixer, Water Bath</p>	<p>AOAC 2003.07, 08, 11 - Petrifilm , ISO 6888-1:2003</p>	<p>Coagulase positive Staphylococci</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>8</p>
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24/07/1448 : تاريخ الانتهاء / Expire Date

19/05/1439: تاريخ الاصدار / Issue Date

N-T-00052

<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 7937: 2004</p>	<p><i>Clostridium perfringens</i></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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24/07/1448 : تاريخ الانتهاء / Expire Date

19/05/1439: تاريخ الاصدار / Issue Date

N-T-00052

<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 8.935 - Petrifilm ,ISO 4832:2006</p>	<p>Coliform</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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24/07/1448 : تاريخ الانتهاء / Expire Date

19/05/1439: تاريخ الاصدار / Issue Date

N-T-00052

Auto-pipette, Balance 2dp, Colony Counter, Incubator Large (400L), Microscope, Multi Channel Pipettor, Portable Bunsen Burner, Stomacher, Vortex Mixer, Water Bath	ISO 21528-2: 2004 , APHA 8.631 - Petrifilm	Enterobacteriaceae	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	11
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24/07/1448 : تاريخ الانتهاء / Expire Date

19/05/1439: تاريخ الاصدار / Issue Date

N-T-00052

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	12
Incubators, Colony counter, Balance 2 dp, Pipettor, Waterbath, Bunsen burner	APHA 9213 E , Membrane filtration	Pseudomonas aeruginosa	Drinking water	13
Incubators, Colony counter, Balance 2 dp, Pipettor, Waterbath, Bunsen burner	APHA 9230 C	Fecal Streptococci	Drinking water	14
Incubators, Colony counter, Balance 2 dp, Pipettor, Waterbath, Bunsen burner	APHA 9215 A	Heterotrophic plate count	Drinking water	15
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	16



24/07/1448 : تاريخ الانتهاء / Expire Date

19/05/1439: تاريخ الاصدار / Issue Date

N-T-00052

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	17
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	18
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	19
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	20
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	21
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	22
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	23
HPLC	COST 91, 1986 (modified) , EN 12823-1:2000 , internal method	Vitamin A	Food, Feed & Dairy Products	24
HPLC	COST 91, 1986 , , Internal method	Vitamin E	Food & Feeds	25
HPLC	Royal ACI, Volume2, 1987 , Internal method	Vitamin B1	Food & Feeds	26
HPLC	Royal ACI, Volume2, 1987 , Internal method	Vitamin B2 , B3 , B6	Food & Feeds	27
HPLC	JAOAC, Volume 75, 1992 , Food Chemistry94 626-631/ LC-DAD , AOAC 2012.22 , internal method	Vitamin C	Food & Feeds	28



24/07/1448 : تاريخ الانتهاء / Expire Date

19/05/1439: تاريخ الاصدار / Issue Date

N-T-00052

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	29
Spectrophotometer	Standard Methods for the Examination of Water and Waste Water, 23rd Edition, 4500- NH3 (A, B, C)	Ammonia	Water	30
Conductivity meter	Standard Methods for the Examination of Water and Waste Water, 23rd Edition, 2510 B	Conductivity	Water	31
Nessler Tubes	Standard Methods for the Examination of Water and Waste Water, 23rd Edition, 2120 B	Colour	Water	32
GC	BP-2002 Determination of Ethanol (Appendix VIII F) (modified) , BP-Journal Chromatography 53 (1970)	Residual Alcohol	Pharmaceuticals and Foods	33
Turbidity meter	APHA 23rd Edition-2130B	Turbidity	Water	34
HPLC	In-house method V0201	Vitamin D3	Food & Feeds	35
GC	AOAC 970.51 ,933.08 , 970.50 , 994.10, 976.26	Cholesterol	Food & Dairy	36
HPLC	In-house HPLC V 1502	Vitamin K	Food & Feeds	37
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	38
calculation	ISO 6731/IDF 21:2010 , internal method	total solids	Food & Dairy Products	39



24/07/1448 : تاريخ الانتهاء / Expire Date

19/05/1439: تاريخ الاصدار / Issue Date

N-T-00052

<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>40</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>41</p>



24/07/1448 : تاريخ الانتهاء / Expire Date

19/05/1439: تاريخ الاصدار / Issue Date

N-T-00052

<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>42</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>43</p>



24/07/1448 : تاريخ الانتهاء / Expire Date

19/05/1439: تاريخ الاصدار / Issue Date

N-T-00052

<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>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>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>45</p>



24/07/1448 : تاريخ الانتهاء / Expire Date

19/05/1439: تاريخ الاصدار / Issue Date

N-T-00052

<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>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>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>47</p>



24/07/1448 : تاريخ الانتهاء / Expire Date

19/05/1439: تاريخ الاصدار / Issue Date

N-T-00052

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	48
Incubators, Colony counter, Balance 2 dp, Pipettor, Waterbath, Bunsen burner	ISO 11731-2:2017	Legionella pneumophilla and spp	water	49
Titration	AOCS Ja4-46 , AOCS Ja3-87	Insoluble matter	Oils and Lipids	50
Titration	ISO 6886	Oxidative value	Oils and Lipids	51
Viscometer	AOCS Ja 10-87	Viscosity	Oils and Lipids	52
Melting point apparatus	AOAC 920.157	Melting point	Oils and Lipids	53
Titration	AOAC 993.20	Iodine value	Oils and Lipids	54
Refractometer	AOAC 920.118, ISO 1739, ISO 6320	Refractive index	Oils and Lipids	55
Titration	ISO 660	Free fatty acid and Acid value	Oils and Lipids	56
Gravimetric	AOAC 975.13	Unsaponifiable Matter	Cocoa Butter	57
Gravimetric	Chocolate, Cocoa and Confectionary 1989	Fineness	Cacao products	58
HPLC	Leatherhead Food RA Analytical Methods Manual,2nd Edition	Sorbic acid	All Foods	59
HPLC	Leatherhead Food RA Analytical Methods Manual,2nd Edition	Benzoic acid	All Foods	60
ELISA	ELISA-Ridascreen R-Biopharm AG	Ochratoxin A	All Foods	61
Refractometer	ISO 1739 , Internal method	Refractive Index	All Foods	62
Sieves	ISO 2591-1	Particle Size	All Foods	63
Physical	GEA Niro Method A 4 a	Scorched Particles	Dairy and Dairy Products	64



24/07/1448 : تاريخ الانتهاء / Expire Date

19/05/1439: تاريخ الاصدار / Issue Date

N-T-00052

Gravimetric	Internal method	Density	All Foods	65
Spechtrophotometer	GEA Niro Method No. A 21	Whey Protein Nitrogen Index (WPN)	Milk Powder	66
NIR	Internal method	Protein	Milk Powder	67
NIR	Internal method	Fat	Milk Powder	68
ELISA	ELISA-Ridascreen R-Biopharm AG	Aflatoxin M1	Milk and dairy products	69
NIR	Internal method	Ash	Feeds and forages	70
NIR	Internal method	Moisture	Feeds and forages	71
NIR	Internal method	Crude Protein	Feeds and forages	72
NIR	Internal method	Crude Fat	Feeds and forages	73
NIR	Internal method	ADF (Acid Detergent Fiber)	Feeds and forages	74
NIR	Internal method	NDF (Neutral Detergent Fiber)	Feeds and forages	75
NIR	Internal method	Crude Fiber	Feeds and forages	76
Gravimetric	Internal method	Acid insoluble ash	Feeds	77
Gravimetric	AOAC 2003.5	Crude Fat	Feeds, Cereal, Grains and Forages	78
Gravimetric	EN 1186-3 , Internal method	Overall Migration by Total Immersion	Food Contact Materials	79
Gravimetric	EN 1186-9 , Internal method	Overall Migration by Article Filling	Food Contact Materials	80
UV-Spechtrophotometer	EN 1541	Formaldehyde	Paper and Board	81



24/07/1448 : تاريخ الانتهاء / Expire Date

19/05/1439: تاريخ الاصدار / Issue Date

N-T-00052

UV-Spectrophotometer	DIN 54603 E	Glyoxal Content	Paper and Board	82
HPLC	Internal method	Vitamin B5 - Panthothenic acid	Food & Feeds	83
HPLC	Internal method	Vitamin B7 - Biotin	Food & Feeds	84
HPLC	Internal method	Folic acid	Food & Feeds	85
HPLC	Internal method	Panthothenate	Food & Feeds	86
HPLC	Internal method	Vitamin B12 - Cyanocobalamin	Food & Feeds	87
GC	In-house based on JAOCS, 62, 1985	Fatty acids profile	Food & Dairy Powders	88
Calculation	ANZ Food Standards Code - Standard 1.2.8, FAO Chapter 1	Energy	Food & Dairy Powders	89
Calculation	ANZ Food Standards Code - Standard 1.2.8, FAO Chapter 1	Carbohydrates	Food & Dairy Powders	90
Incubators, Colony counter, Balance 2 dp, Pipettor, Waterbath, Bunsen burner	APHA 9223 B	E. coli count (MF)	Drinking Water	91
Incubators, Colony counter, Balance 2 dp, Pipettor, Waterbath, Bunsen burner	APHA 9223 B	Coliform count (MF)	Drinking water	92
Gravimetric	AOAC 963.15	Total Fat	Cacao products	93
Titration	AOAC 990.28	Sulfur dioxide	All Foods	94
Spectrophotometer	Phadebas (Based on JE Schade , DIN NORM10750)	Diastase Activity	Honey	95
Titration	Internal Method (SOP AMJ551)	Titrateable Acidity	Food & Dairy Products	96
Titration	Internal Method (SOP AMJ559)	Determination of Titrateable Acidity of Fruit Products	Fruit Products	97
HPLC	Application note, Publication number 5991-2851EN	Caffeine	All Foods	98



24/07/1448 : تاريخ الانتهاء / Expire Date

19/05/1439: تاريخ الاصدار / Issue Date

N-T-00052

ELISA	ELISA-Ridascreen R-Biopharm Kit Method (Sept 2016)	Determination of Total Aflatoxins	Foods and Feeds	99
Titration	AOAC 965.33:1969 & ISO 3960:2017	Peroxide value	Oils and Lipids	100
Titration	AOAC 965.20:1996 & ISO 3961:2018	Iodine value	Oils and Lipids	101
Titration	AOCS Cd3-25:2017	Saponification Value	Oils and Lipids	102
Titration	AOCS Ca 5a-40:2009	Free Fatty Acids	Oils and Lipids	103
Titration	AOCS Ca 3a-46:2011	Impurities	Oils and Lipids	104
Titration	Internal Method (SOP AMJ143v2:2017)	p-Anisidine value	Oils and Lipids	105
Titration	AOCS Ca 5a-40:2009	Acid value	Oils and Lipids	106
Pycnometer	Internal Method (SOP AMJ567 v04:2017)	Density	Liquids	107
Spectrophotometer	AOAC 980.23:1983	Hydroxymethyl Furfural (HMF)	Honey	108
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	109
Karl Fisher	ISO 6488:2021	Water content Karl Fischer Method	Tobacco and its Products	110
Gravimetric	APHA 2540C 23rd edition, 2017, TDS Meter	Total Dissolved Solids	Water	111
Gravimetric	APHA 2540D 23rd edition, 2017	Total Suspended Solids	Water	112
Calculation	APHA 2340B 23rd edition, 2017	Total Hardness	Water	113



24/07/1448 : تاريخ الانتهاء / Expire Date

19/05/1439: تاريخ الاصدار / Issue Date

N-T-00052

HPLC	AMJ592 Aflatoxin by HPLC - FID with Immunoaffinity Column	Aflatoxin B1, B2, G1, G2, Total	Nuts, Food	114
HPLC	AMJ594 Ochratoxin A by HPLC – FID with Immunoaffinity Column	Ochratoxin A	Nuts, Food	115
Gravimetric	ISO 763:2003	Acid insoluble Ash	Oil and Lipids	116
Spectrophotometer	R-Biopharm Nitrate UV Method	Nitrite & Nitrate	Meat and meat products	117
Incubator	US FDA BAM Chapter 6 (2013)	Isolation and Detection of Shigella species	Food	118
Incubator	US FDA BAM Chapter 9 (2004)	Detection of Vibrio species	Food	119
Incubator	ISO 15214:1998	Enumeration of Lactic acid bacteria	Food	120
Incubator	ISO 6888-3:2003	Detection of Staphylococcus aureus	Food	121
Incubator	ISO 15213:2003	Enumeration of Sulphite reducing clostridia	Food	122
Incubator	"APHA CMMEF 9.71 and 9.72, 4th Edition (2015)"	Total Coliform - MPN Method	Food	123
Incubator	APHA CMMEF 9.9, 4th Edition (2015)	E. coli - MPN Method	Food	124
ELISA	Solus Salmonella ELISA Kit Method Presumptive (Aug 2017), ISO 6579:2017 (Confirmation)	Detection & Confirmation of Salmonella spp.	All Foods, Environmental Swabs	125
ELISA	"Solus Listeria ELISA Kit Method Presumptive (Aug 2017), ISO 11290-1:2017 (Confirmation)"	Detection and Confirmation of Listeria spp.	All Foods, Environmental Swabs	126
LC-MS/MS/GC-MS/MS	AOAC 2007.1	Acephate,Acetamiprid,Acibenzol ar-S-methyl,Aldicarb,Aldicarb sulfone,Aldicarb	All Foods, Feeds, Forages, Tobacco	127



24/07/1448 : تاريخ الانتهاء / Expire Date

19/05/1439: تاريخ الاصدار / Issue Date

N-T-00052

sulfoxide,Ametryn,Amitraz,
Azoxystrobin,Benalaxyl,Bendioc
arb,Benzoximate,Bifenazate,Bite
rtanol, Boscalid,Bromuconazole
I,Bromuconazole
II,Butafenacil,Butocarboxim,Buto
xycarboxim,Carbaryl,Carbendazi
m,
Carbetamide,Carbofuran,Carbof
uran-3
hydroxy,Carboxin,Chlorantranilip
role,
Chlorfluazuron,Chloroxuron,Chlo
rtoluron,Clofentezine,Clothianidi
n,Cyazofamid,Cycluron,Cymoxa
nil,Cyproconazole
I,Cyproconazole
II,Desmedipham,Diclobutrazol,Di
crotophos,Diethofencarb,
Diflubenzuron,Dimethoate,Dimet
homorph I,Dimethomorph
II,Dimoxystrobin,Diniconazole,Di
notefuran,Diuron,Emamectin
benzoate,Epoxiconazole,Etacon
azole,Ethiofencarb,Ethiprole,
Ethirimol,Ethofumesate,Etoxazol
e,Famoxadone,Fenamidone,Fen
buconazole,Fenhexamid,
Fenobucarb,Fenoxycarb,Fenpyr
oximat,Fenuron,Fipronil,Flonica
mid,Fluazinam,
Flubendiamide,Flufenacet,Flufen
oxuron,Fluomethuron,Fluoxastro
bin,Flusilazole,
Flutriafol,Forchlorfenuron,Formet
anate,Fuberidazole,Furalaxyl,Fur
athiocarb,Hexaconazole,
Hexaflumuron,Hexythiazox,Imaz
alil,Imidacloprid,Indoxacarb,Ipco
nazole,Iprovalicarb
I,Isocarbofos,Isoprocarb,Isoprotu
ron,Kresoxim methyl,Linuron,



24/07/1448 : تاريخ الانتهاء / Expire Date

19/05/1439: تاريخ الاصدار / Issue Date

صفحة 20 من 32

N-T-00052

Lufenuron, Mandipropamid, Mefenacet, Mepanipyrim, Mepronil, Metflumizone, Metconazole, Methabenzthiazuron, Methamidophos, Methiocarb, Methomyl, Methoprotryne, Methoxyfenozide, Metobromuron, Metribuzin, MevinphosI, MevinphosII, Monocrotophos, Monolinuron, Moxidectin, Neburon, Nitenpyram, Novaluron, Nuarimol, Omethoate, Oxadixyl, Oxamyl, Pencycuron, Phenmedipham, Picoxystrobin, Pirimicarb, Prochloraz, Promecarb, Prometon, Prometryn, Propamocarb, Propham, Propiconazole, Propoxur, Pyracarbolid, Pyraclostrobin, Pyrimethanil, Pyriproxifen, Quinoxifen, Rotenone, Secbumeton, Siduron, Simetryn, Spirodiclofen, Spiromesifen, Spirotetramat, Sulfentrazone, Tebufenozide, Tebutiuron, Teflubenzuron, Temephos, Terbumeton, Terbutryn, Tetraconazole, Thiabendazole, Thiacloprid, Thiamethoxam, Thidiazuron, Thiobencarb, Thiophanatemethyl, 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'-methoxychlorolefin, Acetochlor, Acrinathrin-2



24/07/1448 : تاريخ الانتهاء / Expire Date

19/05/1439: تاريخ الاصدار / Issue Date

N-T-00052

,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-Permethrine,Clomazone,Cycloate,Cyprodinil,Di-allate-1,Di-allate-2,Diazinon,Dichlobenil,Dichlofluanid,Dieldrin,Dimethachlor,Diphenamid,Diphenylamine,Endosulfan ether,Endosulfan sulfate,Endrin,EPN,Ethalfuralin,Ethion,Etofenprox,Etridiazole,Fenarimol,Fenchlorphos,Fenpropathrin,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,lambdacyhalothrin,Leptophos,Malathion,Metalaxyl



24/07/1448 : تاريخ الانتهاء / Expire Date

19/05/1439: تاريخ الاصدار / Issue Date

N-T-00052

		(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,Pirimiphosmethyl,Pretilachlor,Procymidone, Prodiamine,Profluralin,Propachlor, Propisochlor, Propyzamide,Prothiofos,Pyrazophos,Pyridaben,Pyriproxyfen,Quinalphos,Sulfotep,Sulprofos,tau-Fluvalinate-1,tau-Fluvalinate-2 ,Tebuconazole,Tebufenpyrad,Tenazene,Tefluthrin,Terbacil,Terbufos, Terbutylazine,Tetradifon,Tetramethrin-1,Tetramethrin-2 ,Tolclofosmethyl,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	128



24/07/1448 : تاريخ الانتهاء / Expire Date

19/05/1439: تاريخ الاصدار / Issue Date

N-T-00052

Incubator	"APHA 9221E, 23rd Edition (2017)"	"Enumeration of Fecal Coliforms – MPN"	Water	129
Incubator	"APHA 9221F 23rd Edition (2017)"	Enumeration of E. coli – MPN	Water	130
Incubator	APHA 9222B 23rd Edition (2017)	Enumeration of Total coliforms – Membrane Filtration	Water	131
Incubator	APHA 9222D 23rd Edition (2017)	Enumeration of E. coli - Membrane Filtration	Water	132
Kit	Internal Method (AMJ 581)	Free Chlorine	Water	133
HPLC	EN 12856	Determination of Acesulfame K, Saccharin, Aspartame	Food	134
HPLC	Journal of AOAC International Vol. 79, No. 2, 1996 451	"Beverages, fruit juice	Patulin	135
HPLC	Analytical Chemistry Journal, Acrylamide Analysis in Food by LC and GC Methods, 44:107–141	Food	Acrylamide	136
HPLC	Agilent App note 5990-9398EN, CEN/TS 13130-13	Water, Beverage, Packaging Materials	Bisphenol A	137
ICP-MS	Journal of Agricultural and Food Chemistry, Dec 4, 2018	Food	Titanium Dioxide	138
GC-FID	"In-house GC method 9 (SOP MTL-012 v01 12DEC2023)"	Disaccharide	Inverted Molasses Liqueur used in tobacco industry	139
ICP MS	In-house: Hot Acid Digestion for food and Raw Materials (Elements for Analysis)	Minerals and Elements (Al, Sb, As, Ba, Be, Bi, B, Cs, Ca, Cd, Cr, Co, Cu, Fe, Pb, Li, Mg, Mn, Hg, Ni, P, Se, Rb, Na, Ag, Sn, Zn)	Food, Feed, Dairy & Raw Materials	140



24/07/1448 : تاريخ الانتهاء / Expire Date

19/05/1439: تاريخ الاصدار / Issue Date

N-T-00052

<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 (Screen), ISO 16654 (Confirmation)</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>141</p>
<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</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>142</p>



24/07/1448 : تاريخ الانتهاء / Expire Date

19/05/1439: تاريخ الاصدار / Issue Date

N-T-00052

ICP-MS	Internal method	Specific migration of Heavy metal (As, Hg, Pb, Cd, As)	Food Contact Materials (Glass, Ceramic, Plastics)	143
Incubator	"Premi Test © SP – NT/SP MINI "	Quantitative Determination of Antibiotic Residue (Amoxicillin, Ampicillin, Pemicillin G, Cloxacillin, Oxacillin, Dicloxacillin, Cefquinome, Ceftiofur, Tylosin, Erythromycin, Lincomycin, Tilmicosin, Spiramycin, Chlortetracycline, Oxytetracycline, Doxycycline, Tetracycline, Demeclocycline, Sulphamethazine, Sulphadiazine, Sulphamethazole, Sulphaguanidine, Sulphadimethoxine, Sulphapyridine, Sulphamethoxypyridine, Sulphisoxazole, Sulphathiazole, Sulphachloropyridazine, Sulphamerazine, Sulphanilamide, Sulphaquinoxaline, Sulphamethiazole, Sulfamethoxazole, Gentamicin, Streptomycin, Neomycin, Dihydrostreptomycin, Oxolinic acid, Enrofloxacin, Flumequine, Virginiamycin, Bacitracin, Zn-bacitracin, Colistin, Salinomycin, Monensin, Avilamycin, Trimethoprim, Florphenicol, Chloramphenicol, Narasin, Amprolium, Phosphomycin, Ronidazole, Furazolidone) "	Meat, Honey, Dairy	144
"GC-FID	"WHO ToplabNet SOP 11, ISO 20714	Glycerin	Tobacco and Tobacco Products	145



24/07/1448 : تاريخ الانتهاء / Expire Date

19/05/1439: تاريخ الاصدار / Issue Date

N-T-00052

Karl Fisher	ISO 6488	Moisture%	Tobacco and Tobacco Products	146
Smoking machine, GC-FID	ISO 10315	Nicotine	Tobacco and Tobacco Products	147
Smoking machine	ISO 4387	Tar	Tobacco and Tobacco Products	148
Smoking machine	WHO ToplabNet SOP 10	Carbon Monoxide	Tobacco and Tobacco Products	149
GC-FID	WHO ToplabNet SOP 06	Glycerin	Tobacco and Tobacco Products	150
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, Bitertanol, Boscalid, Bromuconazole I, Bromuconazole II, Butafenacil, Butocarboxim, Butoxy-carboxim, Carbaryl, Carbendazim, Carbetamide, Carbofuran, Carbofuran-3 hydroxy, Carboxin, Chlorantraniliprole, Chlorfluazuron, Chloroxuron, Chlortoluron, Clofentezine, Clothianidin, Cyazofamid, Cycluron, Cymoxanil, Cyproconazole I, Cyproconazole II, Desmedipham, Diclobutrazol, Dicrotophos, Diethofencarb, Diflubenazuron, Dimethoate, Dimethomorph I, Dimethomorph	Tobacco and Tobacco Products	151



24/07/1448 : تاريخ الانتهاء / Expire Date

19/05/1439: تاريخ الاصدار / Issue Date

N-T-00052

II, Dimoxystrobin, Diniconazole, Dinotefuran, Diuron, Emamectin benzoate, Epoxiconazole, Etaconazole, Ethiofencarb, Ethiprole, Ethirimol, Ethofumesate, Etoxazole, Famoxadone, Fenamidone, Fenbuconazole, Fenhexamid, Fenobucarb, Fenoxycarb, Fenpyroximat, Fenuron, Fipronil, Flonicamid, Fluazinam, Flubendiamide, Flufenacet, Flufenoxuron, Fluomethuron, Fluoxastrobina, Flusilazole, Flutriafol, Forchlorfenuron, Formetanate, Fuberidazole, Furalaxyl, Furathiocarb, Hexaconazole, Hexaflumuron, Hexythiazox, Imazalil, Imidacloprid, Indoxacarb, Ipconazole, Iprovalicarb, Isocarbofos, Isoprocarb, Isoproturon, Kresoxim methyl, Linuron, Lufenuron, Mandipropamid, Mefenacet, Mepanipyrim, Mepronil, Metafalumizone, Metconazole, Methabenzthiazuron, Methamidophos, Methiocarb, Methomyl, Methoprotryne, Methoxyfenozide, Metobromuron, Metribuzin, MevinphosI, MevinphosII, Monocrotophos, Monolinuron, Moxidectin, Neburon, Nitenpyram, Novaluron, Nuarimol, Omethoate, Oxadixyl, Oxamyl, Pencycuron, Phenmedipham, Picoxystrobin, Pirimicarb, Prochloraz, Promecarb, Prometon, Prometryn, Propamocarb, Propham, Propiconazole, Propoxur, Pyracarbolid, Pyraclostrobin, Pyrimethanil, Pyriproxifen, Quinoxifen, Rotenon



24/07/1448 : تاريخ الانتهاء / Expire Date

19/05/1439: تاريخ الاصدار / Issue Date

صفحة 28 من 32

N-T-00052

e,Secbumeton,Siduron,Simetryn,
Spirodiclofen,
Spiromesifen,Spirotetramat,Sulfe
ntrazone,Tebufenozide,Tebuthiu
ron,Teflubenzuron,Temephos,Te
rbumeton,
Terbutryn,Tetraconazole,Thiabe
ndazole,Thiacloprid,Thiamethox
am,Thidiazuron,
Thiobencarb,Thiophanate-
methyl,Triadimenol,Trichlorfon,Tr
icyclazole,Trifloxystrobin,Triflum
uron,
Triticonazole,Vamidothion,Zoxa
mide,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,B
romfenvinphos,Bromophos,Brom
ophos-
ethyl,Bromopropylate,Bupirimate
,Carbophenothion,Carfentrazone
-ethyl,Chlorbenside,
Chlorfenapyr,
Chlorfenson,Chlorobenzilate,Chl
orpyrifos,Chlorpyrifos-
methyl,Chlorthal-
dimethyl,Chlorthiophos-2
,Chlorthiophos-3
,Chlozolate,cis-Chlordane,cis-
Nonachlor,cis-
Permethrine,Clomazone,Cycloa
t e,Cyprodinil,Di-allate-1,Di-



24/07/1448 : تاريخ الانتهاء / Expire Date

19/05/1439: تاريخ الاصدار / Issue Date

صفحة 29 من 32

N-T-00052

allate-2
,Diazinon,Dichlobenil,Dichlofluan
id,Dieldrin,Dimethachlor,
Diphenamid,Diphenylamine,End
osulfan ether,Endosulfan
sulfate,Endrin,EPN,Ethalfuralin,
Ethion,Etofenprox,Etridiazole,
Fenarimol,Fenchlorphos,Fenpro
pathrin,Fenson,Fenthion,Fluazifo
p-P-
butyl,Fluchloralin,Flucythrinate-1
,Flucythrinate-2,Fludioxonil,
Fluquinconazole,
Flutolanil,Fonofos,gamma-BHC
(Lindane),Heptachlor,Heptachlor
-exo-
epoxide,Hexachlorobenzene,He
xazinone,Iprodione,
Isodrin,Isopropalin,lamba-
Cyhalothrin,Leptophos,Malathion
,Metalaxyl
(Mefenoxam),Metazachlor,Metha
crifos, 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,Peb
ulate,Penconazole,Pendimethali
n,Pentachloroaniline,
Pentachloroanisole,Pentachlorob
enzene,Pentachlorobenzonitrile,
Pentachlorothioanisole,Phorate,
Phosalone,Piperonyl
butoxide,Pirimiphos ethyl,
Pirimiphos-
methyl,Pretilachlor,Procymidone,
Prodiamine,Profluralin,Propachlo
r,Propisochlor,
Propyzamide,Prothiofos,Pyrazop
hos,Pyridaben,Pyriproxyfen,Quin
alphos, Sulfotep, Sulprofos,tau-



24/07/1448 : تاريخ الانتهاء / Expire Date

19/05/1439: تاريخ الاصدار / Issue Date

صفحة 30 من 32

N-T-00052

		Fluvalinate-1,tau-Fluvalinate-2 ,Tebuconazole,Tebufenpyrad,Te cnazene,Tefluthrin,Terbacil,Terb ufos, Terbutylazine,Tetradifon,Tetra methrin-1,Tetramethrin-2 ,Tolclofos-methyl, Tolyfluanid,trans-Chlordane,Transfluthrin,trans-Nonachlor,trans-Permethrine,Triadimefon,Triadim enol-1, Tri- allate,Triazophos,Triflumizole,Tri fluralin,Vinclozolin,		
GC-FID	ISO 20714	Nicotine	E-cigarettes /E-liquid /vape	152
GC-FID, Smoking machine	WHO ToplabNet SOP 04	Nicotine	Cigarettes	153
HPLC	SOP AMJ581 v04:2023 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	Inverted Molasses Liquer used in tobacco industry	154
ICP-MS	DETERMNATIO OF TOXICE HEAVY METALES BY NIXON 350D ICP-MS	Heavy Metals (As, Pb, Hg, Cd)	E-cigarettes /E-liquid /vape	155
Incubator	USP 62	Staphylococcus aureus	Tobacco and Tobacco Products	156
Incubator	USP 62	Pseudomonas aeruginosa	Tobacco and Tobacco Products	157
Incubator	USP 61	Yeast and Moulds	Tobacco and Tobacco Products	158



24/07/1448 : تاريخ الانتهاء / Expire Date

19/05/1439: تاريخ الاصدار / Issue Date

N-T-00052

Incubator	USP 61	Aerobic Plate count	Tobacco and Tobacco Products	159
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24/07/1448 : تاريخ الانتهاء / Expire Date

19/05/1439: تاريخ الاصدار / Issue Date

N-T-00052