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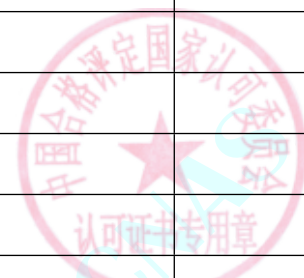
Registration No. CNAS L0728

Accreditation Criteria: ISO/IEC 17025 and relevant requirements of CNAS

Effective Date: 2018-12-13 Expiry Date: 2024-12-30

SCHEDULE 3 ACCREDITED TESTING SCOPE

№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
water					
1	Water	1	Colony count	Pour Plate Method APHA 9215B: 2017	
		2	Total coliforms	Fermentation Technique APHA 9221B: 2017	
				Membrane Filtration Method APHA 9222B:2017	
				Enzyme Substrate Method APHA 9223B: 2017	
		3	Thermotolerant (Fecal) coliform	EC Medium APHA 9221E.1: 2017	
				A-1 Medium APHA 9221E.2:2017	
		4	E. coli	EC-MUG Medium APHA 9221F.1: 2017	
				MUG Medium APHA 9222I:2017	



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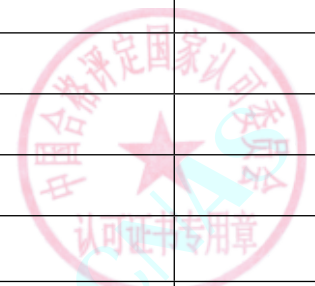
№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				Enzyme Substrate Method APHA 9223B: 2017	
		5	Enterococci	EA The Microbiology of Drinking Water Part 5.A:2012 Membrane Filtration Method EA (UK) Part 5.A: 2012 Standard Test Method for Enterococci in Water Using Enterolert ASTM D6503-14	
		6	Fecal Streptococcus	EA The Microbiology of Drinking Water Part 5.A:2012 Membrane Filtration Method EA (UK) Part 5.A: 2012	
		7	Pseudomonas aeruginosa	Water quality - Detection and enumeration of Pseudomonasaeruginosa Method by membrane filtration ISO 16266:2006	
		8	Coagulase-positive staphylococci	Membrane Filtration Method APHA 9213B.6.b: 2017	
		9	Giardia	Cryptosporidium and Giardia in Water by Filtration/IMS/FA U.S. EPA 1623.1:2012	
		10	Cryptosporidium	Cryptosporidium and Giardia in Water by Filtration/IMS/FA U.S. EPA 1623.1:2012	
		11	Clostridium perfringens	Water Quality - Enumeration of Clostridium perfringens - Method using membrane filtration ISO 14189:2013	
		12	Salmonella spp.	Water Quality – Detection of Salmonella spp. ISO 19250:2010	Accredited only for Serovar O A-I, Vi
		13	Vibrio cholerae	Laboratory Methods for the Diagnosis of Vibrio cholerae Centers for Disease Control and Prevention, USA (1994).Examination of food and environmental samples, chapter 5, Laboratory identification of Vibrio cholerae, chapter 6	Accredited only for Serovar O-1/139, direct culture technique and MF



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					technique
		14	Temperature	Laboratory and Field Method (Thermometryic) APHA 2550B:2017	
		15	Total residual chlorine	DPD Colorimetric method APHA 4500-Cl G:2017	
		16	Free chlorine	DPD Colorimetric method APHA 4500-Cl G:2017	
		17	Dissolved oxygen	Direct measurement method HACH 10360:2015	Accredited only for LDO probe method
		18	Salinity	Electrical conductivity method APHA 2520-B:2017	
		19	Color	Spectrophotometric-Single-Wavelength Method APHA 2120C:2017	
		20	Turbidity	Nephelometric method APHA 2130B:2017	
		21	pH	Electrometric method APHA 4500-H+ B:2017	
		22	Conductivity	Laboratory Method APHA 2510B:2017	
		23	Acidity	Titration method APHA 2310B:2017	
		24	Alkalinity	Titration method APHA 2320B:2017	
		25	Hardness	EDTA titration method APHA 2340C:2017	
		26	180°C Total dissolved solid	Total Dissolved Solid Dried at 180°C APHA 2540C:2017	
		27	105°C Total suspended solid	Total Suspended Solid Dried at 103~105°C APHA 2540D:2017	



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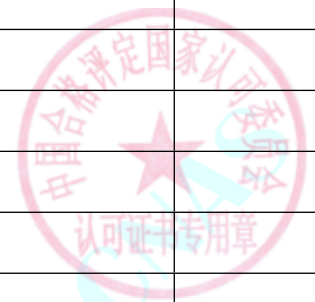
№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		28	Total solids	Total Solids Dried at 103~105°C APHA 2540B:2017	
		29	Chemical oxygen demand	Closed Reflux, Colorimetric Method APHA 5220D:2017	
		30	Oxygen demand	Acidic permanganate titrimetric method GB/T 5750.7-2006 1.1 Determination of permanganate index ISO 8467:1993	
		31	5-day BOD	5-day BOD test APHA 5210-B:2017	
		32	Anionic surfactants	Water quality - Determination of the methylene blue active substances (MBAS) index - Method using continuous flow analysis (CFA) ISO 16265:2009	
		33	Phenol	Online distillation/ Flow Injection analysis Method NIEA W524.50C:2012	
		34	Bromide	Ion Chromatography with Chemical Suppression of Eluent Conductivity APHA 4110B:2017	
		35	Bromate	Determination of Bromate in Drinking Waters by Ion Chromatography, Inductively Coupled Plasma- Mass Spectrometry USEPA 321.8:1997	
		36	Chloride	Argentometric method APHA 4500-Cl- B:2017	
				Ion Chromatography with Chemical Suppression of Eluent Conductivity APHA 4110B:2017	
		37	Chlorite	Ion chromatography Determination of Oxyhalides and Bromide APHA 4110D:2017	
		38	Chlorate	Ion chromatography Determination of Oxyhalides and Bromide APHA 4110D:2017	
		39	Fluoride	Ion Chromatography with Chemical Suppression of Eluent Conductivity APHA 4110B:2017	
		40	Nitrite	Colorimetric Method APHA 4500-NO2- B:2017	



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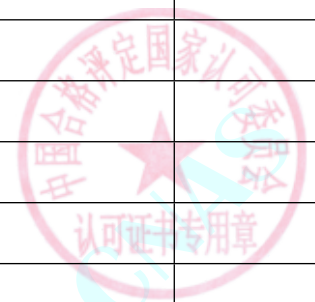
№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				Ion Chromatography with Chemical Suppression of Eluent Conductivity APHA 4110B:2017	
		41	Nitrate	Ion Chromatography with Chemical Suppression of Eluent Conductivity APHA 4110B:2017	
		42	Phosphate	Ion Chromatography with Chemical Suppression of Eluent Conductivity APHA 4110B:2017	
				Flow Injection Analysis for Orthophosphate APHA 4500-P G:2017	
		43	Sulfate	Ion Chromatography with Chemical Suppression of Eluent Conductivity APHA 4110B:2017	
		44	Ammonium	Determination of ammonia nitrogen by semi-automated colorimetry USEPA 350.1:1993	
		45	Cyanide	Water quality -- Determination of total cyanide and free cyanide using flow analysis (FIA and CFA) ---Part 1: Method using flow injection analysis (FIA) ISO 14403-1:2012	
		46	Free carbon dioxide	Titrimetric Method for Free Carbon Dioxide APHA 4500- CO ₂ C:2017	
		47	Total phosphorous	In-Line UV/Persulfate Digestion and Flow Injection Analysis APHA 4500-P I:2017	
		48	Total nitrogen	In-Line UV/Persulfate Digestion and Oxidation with Flow Injection Analysis APHA 4500-N B:2017	
		49	Calcium	ICP/MS Method APHA 3125-B:2017	
		50	Sodium	ICP/MS Method APHA 3125-B:2017	
		51	Potassium	ICP/MS Method APHA 3125-B:2017	
		52	Magnesium	ICP/MS Method APHA 3125-B:2017	
		53	Silver	ICP/MS Method APHA 3125-B:2017	



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		54	Aluminum	ICP/MS Method APHA 3125-B:2017	
		55	Arsenic	ICP/MS Method APHA 3125-B:2017	
		56	Boron	ICP/MS Method APHA 3125-B:2017	
		57	Barium	ICP/MS Method APHA 3125-B:2017	
		58	Beryllium	ICP/MS Method APHA 3125-B:2017	
		59	Cadmium	ICP/MS Method APHA 3125-B:2017	
		60	Cobalt	ICP/MS Method APHA 3125-B:2017	
		61	Chromium	ICP/MS Method APHA 3125-B:2017	
		62	Copper	ICP/MS Method APHA 3125-B:2017	
		63	Iron	ICP/MS Method APHA 3125-B:2017	
		64	Mercury	ICP/MS Method APHA 3125-B:2017	
		65	Manganese	ICP/MS Method APHA 3125-B:2017	
		66	Molybdenum	ICP/MS Method APHA 3125-B:2017	
		67	Nickel	ICP/MS Method APHA 3125-B:2017	
		68	Lead	ICP/MS Method APHA 3125-B:2017	
		69	Antimony	ICP/MS Method APHA 3125-B:2017	



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		70	Selenium	ICP/MS Method APHA 3125-B:2017	
		71	Thallium	ICP/MS Method APHA 3125-B:2017	
		72	Vanadium	ICP/MS Method APHA 3125-B:2017	
		73	Zinc	ICP/MS Method APHA 3125-B:2017	
		74	Chromium (VI)	Colorimetric Method APHA 3500-Cr-B:2017	
				Method using flow analysis and spectromiteic detection ISO 23913:2006	
		75	Silica	Heteropoly Blue Method APHA 4500-SiO2 D:2017	
				Flow Injection Analysis for Molybdate-Reactive Silicate Method APHA 4500-SiO2 F:2017	
				ICP/MS Method APHA 3125-B:2017	
		76	Benzo(a)pyrene	Liquid-Liquid Extraction Chromatographic method APHA 6440B:2017	Accredited only for LC/FLD Analysis
		77	Benzo(b) fluoranthene	Liquid-Liquid Extraction Chromatographic method APHA 6440B:2017	Accredited only for LC/FLD Analysis
		78	Benzo(ghi) perylene	Liquid-Liquid Extraction Chromatographic method APHA 6440B:2017	Accredited only for LC/FLD Analysis
		79	Benzo(k) fluoranthene	Liquid-Liquid Extraction Chromatographic method APHA 6440B:2017	Accredited

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					only for LC/FLD Analysis
		80	Indeno(1,2,3-cd)pyrene	Liquid-Liquid Extraction Chromatographic method APHA 6440B:2017	Accredited only for LC/FLD Analysis
		81	Total Trihalo-methanes	Purge and Trap Gas Chromatographic/Mass Spectrometric Method APHA 6232 C:2017	
		82	Chloroform	Purge and Trap Gas Chromatographic/Mass Spectrometric Method APHA 6232 C:2017	
		83	Bromoform	Purge and Trap Gas Chromatographic/Mass Spectrometric Method APHA 6232 C:2017	
		84	Bromodichloromethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method APHA 6232 C:2017	
		85	Dibromochloromethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method APHA 6232 C:2017	
		86	Carbon tetrachloride	Purge and Trap Gas Chromatographic/Mass Spectrometric Method APHA 6232 C:2017	
		87	Benzene	Purge and Trap Capillary-Column Gas Chromatographic/Mass Spectrometric Method APHA 6200 B:2017	
		88	1,2-Dichloroethane	Purge and Trap Capillary-Column Gas Chromatographic/Mass Spectrometric Method APHA 6200 B:2017	
		89	Trichloroethene	Purge and Trap Capillary-Column Gas Chromatographic/Mass Spectrometric Method APHA 6200 B:2017	
		90	Tetrachloroethene	Purge and Trap Capillary-Column Gas Chromatographic/Mass Spectrometric Method APHA 6200 B:2017	
		91	Vinyl Chloride	Purge and Trap Capillary-Column Gas Chromatographic/Mass Spectrometric Method APHA 6200 B:2017	



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
Food					
1	Food	1	Aerobic colony count	Pour Plate Method APHA Compendium of food 8.72: 2015	
				Petrifilm Plate Method APHA Compendium of food 8.82:2015	
		2	Coliform bacteria	Test for coliform MPN method APHA Compendium of food 9.71-9.72:2015	
				Coliform and Escherichia Coli Counts in Foods AOAC Official Method 991.14: 2002	Accredited only for total coliform
				EC Broth Test for Fecal Coliform MPN method APHA Compendium of food 9.81:2015	
		4	E. coli	Test for E. coli MPN method APHA Compendium of food 9.91-9.93:2015	
				Coliform and E. coli counts in Foods AOAC Official Method 991.14: 2002	Accredited only for E. coli
				Microbiology of food and animal feeding stuffs -- Horizontal method for the enumeration of beta-glucuronidase-positive Escherichia coli -- Part 2: Colony-count technique at 44 degrees C using 5-bromo-4-chloro-3-indolyl beta-D-glucuronide ISO 16649-2: 2001	
		5	Staphylococcus aureus and other coagulase-positive staphylococci	Microbiology of food and animal feeding stuffs -- Horizontal method for the enumeration of coagulase-positive staphylococci (Staphylococcus aureus and other species) -- Part 2: Technique using rabbit plasma fibrinogen agar medium ISO/CD 6888-2:1999 / Amd 1:2003	
				Petrifilm Staph Express, for the enumeration of coagulas positive Staphylococcus NF Certificate no 3M-01/9-04/03A, 3M-01/9-04/03B	
6	Enterococcus	Enumeration of Enterococci KF Streptococcal Agar APHA Compendium of food 10.51:2015			



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		№	Item/ Parameter		
		7	Salmonella spp.	Microbiology of the food chain -Horizontal method for the detection, enumeration and serotyping of Salmonella -- Part 1: Detection of Salmonella spp. ISO 6579-1:2017	Accredited only for Serovar O A-I, Vi
				VIDAS® UP Salmonella method (VIDAS® SPT) for the detection of Salmonella spp. NF validation certificate no. BIO-12/32-10/11	Only for screening
				VIDAS® Salmonella (VIDAS® SLM) Dual selective enrichment for the detection of Salmonella NF validation certificate no. BIO-12/01-04/94	Only for screening
		8	Vibrio cholerae	Laboratory Methods for the Diagnosis of Vibrio cholerae Centers for Disease Control and Prevention, USA (1994).Examination of food and environmental samples, chapter 5, Laboratory identification of Vibrio cholerae, chapter 6	Accredited only for Serovar O-1/139
		9	E.coli O157	Microbiology of food and animal feeding stuffs -- Horizontal method for the detection of Escherichia coli O157 ISO 16654: 2001/Amd 1:2017	
				VIDAS® UP E.coli O157 including H7 method (VIDAS® ECPT) for the detection of Escherichia coli O157 NF validation certificate no. BIO-12/25-05/09	
		10	Listeria monocytogenes	Microbiology of the food chain -- Horizontal method for the detection and enumeration of Listeria monocytogenes and of Listeria spp. -- Part 1: Detection method ISO 11290-1:2017	
VIDAS® Listeria monocytogenes II method (VIDAS® LMO2) for the detection of Listeria monocytogenes NF validation certificate no. BIO-12/11-03/04	Only for screening				
11	Clostridium perfringens	Microbiology of food and animal feeding stuffs -- Horizontal method for the enumeration of Clostridium perfringens—Colony-count technique ISO 7937:2004			
12	Bacillus cereus and other pathogenic Bacillus spp.	Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of presumptive Bacillus cereus colony count technique at 30C ISO 7932:2004	专用章		



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				Enumeration of presumptive Bacillus cereus NF Validation Certificate no: AES 10/10-07/10	
		13	Nitrite	National food safety standard Determination of nitrite and nitrate in foods GB 5009.33-2016	Accredited only for the second method
		14	pH value	AOAC official method pH of acidified foods AOAC official method AOAC official method 981.12-1982	
		15	Sulfite	National food safety standard Determination of sulphite in foods GB 5009.34-2016	
		16	Total mercury	National food safety standard Determination of metals in food sample-ICP/MS method GB 5009.268-2016	Accredited only for the first method
		17	Lead	National food safety standard Determination of metals in food sample-ICP/MS method GB 5009.268-2016	Accredited only for the first method
		18	Cadmium	National food safety standard Determination of metals in food sample-ICP/MS method GB 5009.268-2016	Accredited only for the first method
		19	Chromium	National food safety standard Determination of metals in food sample-ICP/MS method GB 5009.268-2016	Accredited only for the first method
		20	Copper	National food safety standard Determination of metals in food sample-ICP/MS method GB 5009.268-2016	Accredited only for the first method



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		№	Item/ Parameter		
		21	Arsenic	National food safety standard Determination of metals in food sample-ICP/MS method GB 5009.268-2016	Accredited only for the first method
		22	Aluminum	National food safety standard Determination of metals in food sample-ICP/MS method GB 5009.268-2016	Accredited only for the first method
		23	Sorbic Acid	National food safety standard Determination of sorbic acid-benzoic acid and saccharin sodiumin in foods GB 5009.28-2016	Accredited only for the first method
		24	Benzoic Acid	National food safety standard Determination of sorbic acid-benzoic acid and saccharin sodiumin in foods GB 5009.28-2016	Accredited only for the first method
		25	Peroxide value	National food safety standard Determination of Peroxide value in foods GB 5009.227-2016	Accredited only for the first method
		26	Acid value	National food safety standard Determination of Acid value in foods GB 5009.229-2016	Accredited only for the second method
2	Animal origin	1	E. coli	Confirmed Escherichia Counts in Poultry, Meats and Seafood AOAC Official Method 998.08: 2002	
		2	Clenbuterol	MOA proclamation No.1025.18-2008 Determination of Beta-Agonist Residues in foodstuffs of animal origin by LC-MSMS MOA proclamation No.1025.18-2008	



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		3	Ractopamine	MOA proclamation No.1025.18-2008 Determination of Beta-Agonist Residues in foodstuffs of animal origin by LC-MSMS MOA proclamation No.1025.18-2008	
		4	Chloramphenicol	Determination of chloramphenicol Thiamphenicol and florfenicol residues in edible animal muscles liver and aquatic products - LC-MS-MS method GB/T 20756-2006	
		5	Oxytetracycline	Determination of tetracyclines residues in food of animal origin-LC-MS/MS method and HPLC method GB/T 21317-2007	
		6	Tetracycline	Determination of tetracyclines residues in food of animal origin-LC-MS/MS method and HPLC method GB/T 21317-2007	
		7	Chlortetracycline	Determination of tetracyclines residues in food of animal origin-LC-MS/MS method and HPLC method GB/T 21317-2007	
		8	Doxycycline	Determination of tetracyclines residues in food of animal origin-LC-MS/MS method and HPLC method GB/T 21317-2007	
		9	Sulfadiazine	Zhejiang Provincial Standard Determination of 20 kinds of sulfonamides antibiotics residues in foods producing animal origin LC-MS/MS method DB33/T 746-2009	
		10	Sulfathiazole	Zhejiang Provincial Standard Determination of 20 kinds of sulfonamides antibiotics residues in foods producing animal origin LC-MS/MS method DB33/T 746-2009	
		11	Sulfapyridine	Zhejiang Provincial Standard Determination of 20 kinds of sulfonamides antibiotics residues in foods producing animal origin LC-MS/MS method DB33/T 746-2009	
		12	Sulfamerazine	Zhejiang Provincial Standard Determination of 20 kinds of sulfonamides antibiotics residues in foods producing animal origin LC-MS/MS method DB33/T 746-2009	
		13	Sulfamethazine	Zhejiang Provincial Standard Determination of 20 kinds of sulfonamides antibiotics residues in foods producing animal origin LC-MS/MS method DB33/T 746-2009	



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		14	Sulfaquinoxaline	Zhejiang Provincial Standard Determination of 20 kinds of sulfonamides antibiotics residues in foods producing animal origin LC-MS/MS method DB33/T 746-2009	
		15	Sulfachloropyridazine	Zhejiang Provincial Standard Determination of 20 kinds of sulfonamides antibiotics residues in foods producing animal origin LC-MS/MS method DB33/T 746-2009	
		16	Sulfamethoxazole	Zhejiang Provincial Standard Determination of 20 kinds of sulfonamides antibiotics residues in foods producing animal origin LC-MS/MS method DB33/T 746-2009	
		17	Sulfamethoxy pyridazine	Zhejiang Provincial Standard Determination of 20 kinds of sulfonamides antibiotics residues in foods producing animal origin LC-MS/MS method DB33/T 746-2009	
		18	Sulfadoxine	Zhejiang Provincial Standard Determination of 20 kinds of sulfonamides antibiotics residues in foods producing animal origin LC-MS/MS method DB33/T 746-2009	
		19	Sulfadimethoxine	Zhejiang Provincial Standard Determination of 20 kinds of sulfonamides antibiotics residues in foods producing animal origin LC-MS/MS method DB33/T 746-2009	
		20	Enrofloxacin	China's entry-exit inspection and quarantine industry standards Determination of multi-residues of quinolones in food of animal origin for import and export-part2:LC-MS/MS method SN/T1751.2-2007	
		21	Nitrofurans metabolites (AOZ,SEM, AMOZ, AHD)	Determination residues of the metabolites of nitrofurans in pork beef chicken porcine liver and aquatic products - LC-MS-MS method GB/T 20752-2006	
3	Foods for infants and young children,milk and milk	1	Aerobic colony count	Pour Plate Method APHA Compendium of food chapter 8.72: 2015	
				Petrifilm Plate Method APHA Compendium of food Chapter 8.82:2015	
		2	Coliform bacteria	Coliform Count in Dairy Products AOAC Official Method 996.02: 2002	



№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
	products	3	Melamine	Determination of melamine in raw milk and dairy products GB/T 22388-2008	Accredited only for the second method
		4	Clenbuterol	MOA proclamation No.1025.18-2008 Determination of Beta-Agonist Residues in foodstuffs of animal origin by LC-MSMS MOA proclamation No.1025.18-2008	
		5	Ractopamine	MOA proclamation No.1025.18-2008 Determination of Beta-Agonist Residues in foodstuffs of animal origin by LC-MSMS MOA proclamation No.1025.18-2008	
4	Aquatic products	1	E. coli	Confirmed Escherichia Counts in Poultry, Meats and Seafood AOAC Official Method 998.08: 2002	
		2	Formaldehyde	Aquaculture industry standards People's Republic of China Determination of formaldehyde in aquatic products SC/T3025-2006	
		3	Chloramphenicol	Method for the determination of chloramphenicol Thiamphenicol and florfenicol residues in edible animal muscles liver and aquatic products - LC-MS-MS method GB/T 20756-2006	
		4	Sulfadiazine	Zhejiang Provincial Standard Determination of 20 kinds of sulfonamides antibiotics residues in foods producing animal origin LC-MS/MS method DB33/T 746-2009	
		5	Sulfathiazole	Zhejiang Provincial Standard Determination of 20 kinds of sulfonamides antibiotics residues in foods producing animal origin LC-MS/MS method DB33/T 746-2009	
		6	Sulfapyridine	Zhejiang Provincial Standard Determination of 20 kinds of sulfonamides antibiotics residues in foods producing animal origin LC-MS/MS method DB33/T 746-2009	
		7	Sulfamerazine	Zhejiang Provincial Standard Determination of 20 kinds of sulfonamides antibiotics residues in foods producing animal origin LC-MS/MS method DB33/T 746-2009	专用章



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		8	Sulfamethazine	Zhejiang Provincial Standard Determination of 20 kinds of sulfonamides antibiotics residues in foods producing animal origin LC-MS/MS method DB33/T 746-2009	
		9	Sulfaquinoxaline	Zhejiang Provincial Standard Determination of 20 kinds of sulfonamides antibiotics residues in foods producing animal origin LC-MS/MS method DB33/T 746-2009	
		10	Sulfachloropyridazine	Zhejiang Provincial Standard Determination of 20 kinds of sulfonamides antibiotics residues in foods producing animal origin LC-MS/MS method DB33/T 746-2009	
		11	Sulfamethoxazole	Zhejiang Provincial Standard Determination of 20 kinds of sulfonamides antibiotics residues in foods producing animal origin LC-MS/MS method DB33/T 746-2009	
		12	Sulfamethoxy pyridazine	Zhejiang Provincial Standard Determination of 20 kinds of sulfonamides antibiotics residues in foods producing animal origin LC-MS/MS method DB33/T 746-2009	
		13	Sulfadoxine	Zhejiang Provincial Standard Determination of 20 kinds of sulfonamides antibiotics residues in foods producing animal origin LC-MS/MS method DB33/T 746-2009	
		14	Sulfadimethoxine	Zhejiang Provincial Standard Determination of 20 kinds of sulfonamides antibiotics residues in foods producing animal origin LC-MS/MS method DB33/T 746-2009	
		15	Enrofloxacin	China's entry-exit inspection and quarantine industry standards Determination of multi-residues of quinolones in food of animal origin for import and export-part2:LC-MS/MS method SN/T1751.2-2007	
		16	Malachite green	China's entry-exit inspection and quarantine industry standards Determination of multi-residues of quinolones in food of animal origin for import and export-part2:LC-MS/MS method SN/T 1768-2006	Accredited only for HPLC-MS/MS method



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		17	Leucomalachite green	China's entry-exit inspection and quarantine industry standards Determination of multi-residues of quinolones in food of animal origin for import and export-part2:LC-MS/MS method SN/T 1768-2006	Accredited only for HPLC-MS/MS method
		18	Crystal violet	China's entry-exit inspection and quarantine industry standards Determination of multi-residues of quinolones in food of animal origin for import and export-part2:LC-MS/MS method SN/T 1768-2006	Accredited only for HPLC-MS/MS method
		19	Leucocrystal violet	China's entry-exit inspection and quarantine industry standards Determination of multi-residues of quinolones in food of animal origin for import and export-part2:LC-MS/MS method SN/T 1768-2006	Accredited only for HPLC-MS/MS method
		20	Nitrofurantol metabolites (AOZ,SEM, AMOZ, AHD)	National food safety standard Method for the determination residues of the metabolites of nitrofurantol in pork beef chicken porcine liver and aquatic products - LC-MS-MS method GB/T 20752-2006	
		21	Histamine	National food safety standard Determination of Biogenic Amines in food sample GB 5009.208-2016	Accredited only for the first method
5	Bee products	1	Sulfadiazine	Zhejiang Provincial Standard Determination of 20 kinds of sulfonamides antibiotics residues in foods producing animal origin LC-MS/MS method DB33/T 746-2009	
		2	Sulfathiazole	Zhejiang Provincial Standard Determination of 20 kinds of sulfonamides antibiotics residues in foods producing animal origin LC-MS/MS method DB33/T 746-2009	
		3	Sulfapyridine	Zhejiang Provincial Standard Determination of 20 kinds of sulfonamides	



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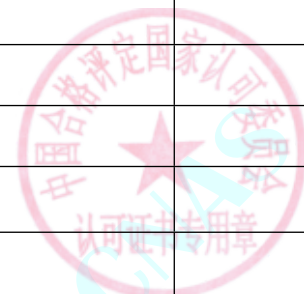
№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				antibiotics residues in foods producing animal origin LC-MS/MS method DB33/T 746-2009	
		4	Sulfamerazine	Zhejiang Provincial Standard Determination of 20 kinds of sulfonamides antibiotics residues in foods producing animal origin LC-MS/MS method DB33/T 746-2009	
		5	Sulfamethazine	Zhejiang Provincial Standard Determination of 20 kinds of sulfonamides antibiotics residues in foods producing animal origin LC-MS/MS method DB33/T 746-2009	
		6	Sulfaquinoxaline	Zhejiang Provincial Standard Determination of 20 kinds of sulfonamides antibiotics residues in foods producing animal origin LC-MS/MS method DB33/T 746-2009	
		7	Sulfachloropyridazine	Zhejiang Provincial Standard Determination of 20 kinds of sulfonamides antibiotics residues in foods producing animal origin LC-MS/MS method DB33/T 746-2009	
		8	Sulfamethoxazole	Zhejiang Provincial Standard Determination of 20 kinds of sulfonamides antibiotics residues in foods producing animal origin LC-MS/MS method DB33/T 746-2009	
		9	Sulfamethoxypyridazine	Zhejiang Provincial Standard Determination of 20 kinds of sulfonamides antibiotics residues in foods producing animal origin LC-MS/MS method DB33/T 746-2009	
		10	Sulfadoxine	Zhejiang Provincial Standard Determination of 20 kinds of sulfonamides antibiotics residues in foods producing animal origin LC-MS/MS method DB33/T 746-2009	
		11	Sulfadimethoxine	Zhejiang Provincial Standard Determination of 20 kinds of sulfonamides antibiotics residues in foods producing animal origin LC-MS/MS method DB33/T 746-2009	
6	Beverage	1	Aerobic colony count	Pour Plate Method APHA Compendium of food 8.72: 2015	
				Petrifilm Plate Method APHA Compendium of food Chapter 8.82:2015	



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		2	Melamine	Determination of melamine in raw milk and dairy products GB/T 22388-2008	Accredited only for the second method
7	Sugar, candy and glace fruit	1	Melamine	Determination of melamine in raw milk and dairy products GB/T 22388-2008	Accredited only for the second method
8	Others (Baked food)	1	Melamine	Determination of melamine in raw milk and dairy products GB/T 22388-2008	Accredited only for the second method
9	Bottled Water	1	Color	Spectrophotometric-Single-Wavelength Method APHA 2120C:2017	
		2	Turbidity	Nephelometric method APHA 2130B:2017	
		3	pH	Electrometric method APHA 4500-H+ B:2017	
		4	Conductivity	Laboratory Method APHA 2510B:2017	
		5	Acidity	Titration method APHA 2310B:2017	
		6	Alkalinity	Titration method APHA 2320B:2017	
		7	Hardness	EDTA titration method APHA 2340C:2017	
		8	180°C Total dissolved solid	Total Dissolved Solid Dried at 180°C APHA 2540C:2017	
		9	105°C Total suspended solid	Total Suspended Solid Dried at 103~105°C APHA 2540D:2017	



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		10	Total solids	Total Solids Dried at 103~105°C APHA 2540B:2017	
		11	Chemical oxygen demand	Closed Reflux, Colorimetric Method APHA 5220D:2017	
		12	Oxygen demand	Acidic permanganate titrimetric method GB/T 5750.7-2006 1.1 Determination of permanganate index ISO 8467:1993	
		13	5-day BOD	5-day BOD test APHA 5210-B:2017	
		14	Anionic surfactants	Water quality - Determination of the methylene blue active substances (MBAS) index - Method using continuous flow analysis (CFA) ISO 16265:2009	
		15	Phenol	Online distillation/ Flow Injection analysis Method NIEA W524.50C:2012	
		16	Bromide	Ion Chromatography with Chemical Suppression of Eluent Conductivity APHA 4110B:2017	
		17	Bromate	Determination of Bromate in Drinking Waters by Ion Chromatography, Inductively Coupled Plasma- Mass Spectrometry USEPA 321.8:1997	
		18	Chloride	Argentometric method APHA 4500-Cl- B:2017	
				Ion Chromatography with Chemical Suppression of Eluent Conductivity APHA 4110B:2017	
		19	Chlorite	Ion chromatography Determination of Oxyhalides and Bromide APHA 4110D:2017	
		20	Chlorate	Ion chromatography Determination of Oxyhalides and Bromide APHA 4110D:2017	
		21	Fluoride	Ion Chromatography with Chemical Suppression of Eluent Conductivity APHA 4110B:2017	
		22	Nitrite	Colorimetric Method APHA 4500-NO2- B:2017	



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				Ion Chromatography with Chemical Suppression of Eluent Conductivity APHA 4110B:2017	
		23	Nitrate	Ion Chromatography with Chemical Suppression of Eluent Conductivity APHA 4110B:2017	
		24	Phosphate	Ion Chromatography with Chemical Suppression of Eluent Conductivity APHA 4110B:2017	
				Flow Injection Analysis for Orthophosphate APHA 4500-P G:2017	
		25	Sulfate	Ion Chromatography with Chemical Suppression of Eluent Conductivity APHA 4110B:2017	
		26	Ammonium	Determination of ammonia nitrogen by semi-automated colorimetry USEPA 350.1:1993	
		27	Cyanide	Water quality -- Determination of total cyanide and free cyanide using flow analysis (FIA and CFA) ---Part 1: Method using flow injection analysis (FIA) ISO 14403-1:2012	
		28	Free carbon dioxide	Titrimetric Method for Free Carbon Dioxide APHA 4500- CO ₂ C:2017	
		29	Total phosphorous	In-Line UV/Persulfate Digestion and Flow Injection Analysis APHA 4500-P I:2017	
		30	Total nitrogen	In-Line UV/Persulfate Digestion and Oxidation with Flow Injection Analysis APHA 4500-N B:2017	
		31	Calcium	ICP/MS Method APHA 3125-B:2017	
		32	Sodium	ICP/MS Method APHA 3125-B:2017	
		33	Potassium	ICP/MS Method APHA 3125-B:2017	
		34	Magnesium	ICP/MS Method APHA 3125-B:2017	
		35	Silver	ICP/MS Method APHA 3125-B:2017	

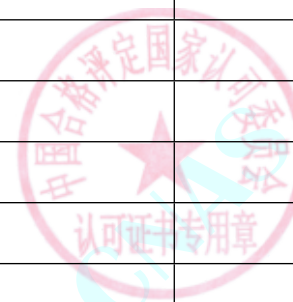


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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		36	Aluminum	ICP/MS Method APHA 3125-B:2017	
		37	Arsenic	ICP/MS Method APHA 3125-B:2017	
		38	Boron	ICP/MS Method APHA 3125-B:2017	
		39	Barium	ICP/MS Method APHA 3125-B:2017	
		40	Beryllium	ICP/MS Method APHA 3125-B:2017	
		41	Cadmium	ICP/MS Method APHA 3125-B:2017	
		42	Cobalt	ICP/MS Method APHA 3125-B:2017	
		43	Chromium	ICP/MS Method APHA 3125-B:2017	
		44	Copper	ICP/MS Method APHA 3125-B:2017	
		45	Iron	ICP/MS Method APHA 3125-B:2017	
		46	Mercury	ICP/MS Method APHA 3125-B:2017	
		47	Manganese	ICP/MS Method APHA 3125-B:2017	
		48	Molybdenum	ICP/MS Method APHA 3125-B:2017	
		49	Nickel	ICP/MS Method APHA 3125-B:2017	
		50	Lead	ICP/MS Method APHA 3125-B:2017	
		51	Antimony	ICP/MS Method APHA 3125-B:2017	



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		52	Selenium	ICP/MS Method APHA 3125-B:2017	
		53	Thallium	ICP/MS Method APHA 3125-B:2017	
		54	Vanadium	ICP/MS Method APHA 3125-B:2017	
		55	Zinc	ICP/MS Method APHA 3125-B:2017	
		56	Chromium (VI)	Colorimetric Method APHA 3500-Cr-B:2017	
				Method using flow analysis and spectromiteic detection ISO 23913:2006	
		57	Silica	Heteropoly Blue Method APHA 4500-SiO2 D:2017	
				Flow Injection Analysis for Molybdate-Reactive Silicate Method APHA 4500-SiO2 F:2017	
				ICP/MS Method APHA 3125-B:2017	
		58	Benzo(a)pyrene	Liquid-Liquid Extraction Chromatographic method APHA 6440B:2017	Accredited only for LC/FLD Analysis
		59	Benzo(b) fluoranthene	Liquid-Liquid Extraction Chromatographic method APHA 6440B:2017	Accredited only for LC/FLD Analysis
		60	Benzo(ghi) perylene	Liquid-Liquid Extraction Chromatographic method APHA 6440B:2017	Accredited only for LC/FLD Analysis
		61	Benzo(k) fluoranthene	Liquid-Liquid Extraction Chromatographic method APHA 6440B:2017	Accredited

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					only for LC/FLD Analysis
		62	Indeno(1,2,3-cd) pyrene	Liquid-Liquid Extraction Chromatographic method APHA 6440B:2017	Accredited only for LC/FLD Analysis
		63	Total Trihalo-methanes	Purge and Trap Gas Chromatographic/Mass Spectrometric Method APHA 6232 C:2017	
		64	Chloroform	Purge and Trap Gas Chromatographic/Mass Spectrometric Method APHA 6232 C:2017	
		65	Bromoform	Purge and Trap Gas Chromatographic/Mass Spectrometric Method APHA 6232 C:2017	
		66	Bromodichloromethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method APHA 6232 C:2017	
		67	Dibromochloromethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method APHA 6232 C:2017	
		68	Carbon tetrachloride	Purge and Trap Gas Chromatographic/Mass Spectrometric Method APHA 6232 C:2017	
		69	Benzene	Purge and Trap Capillary-Column Gas Chromatographic/Mass Spectrometric Method APHA 6200 B:2017	
		70	1,2-Dichloroethane	Purge and Trap Capillary-Column Gas Chromatographic/Mass Spectrometric Method APHA 6200 B:2017	
		71	Trichloroethene	Purge and Trap Capillary-Column Gas Chromatographic/Mass Spectrometric Method APHA 6200 B:2017	
		72	Tetrachloroethene	Purge and Trap Capillary-Column Gas Chromatographic/Mass Spectrometric Method APHA 6200 B:2017	
		73	Vinyl Chloride	Purge and Trap Capillary-Column Gas Chromatographic/Mass Spectrometric Method APHA 6200 B:2017	



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
Food					
1	Food contact materials	1	Salmonella spp.	VIDAS® UP Salmonella method (VIDAS® SPT) for the detection of Salmonella spp. NF validation certificate no. BIO-12/32-10/11	Only for screening



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Name: Laboratory Division, Municipal Affairs Bureau, Macau

Address: 6FL, Novo Mercado Abastecedor de Macau, Avenida do Parque Industrial, Ilha Verde, lote "B1a" da zona de Macau do Parque Industrial Transfronteiriço Zhuhai-Macau

Registration No. CNAS L0728

Accreditation Criteria: ISO/IEC 17025 and relevant requirements of CNAS

Effective Date: 2018-12-13 Expiry Date: 2024-12-30

SCHEDULE 3 ACCREDITED TESTING SCOPE

№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
1	Plant origin	1	Acephate	Foods of plant origin- Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and cleanup by dispersive SPE- QuEChERS-method BS EN15662:2008	LC-MS/MS method only
		2	Chlorpyrifos	Foods of plant origin- Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and cleanup by dispersive SPE- QuEChERS-method BS EN15662:2008	LC-MS/MS method only
		3	Diazinon	Foods of plant origin- Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and cleanup by dispersive SPE- QuEChERS-method BS EN15662:2008	LC-MS/MS method only
		4	Dichlorvos	Foods of plant origin- Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and cleanup by dispersive SPE- QuEChERS-method BS EN15662:2008	LC-MS/MS method only

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		5	Dimethoate	Foods of plant origin- Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and cleanup by dispersive SPE- QuEChERS-method BS EN15662:2008	LC-MS/MS method only
		6	Ethion	Foods of plant origin- Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and cleanup by dispersive SPE- QuEChERS-method BS EN15662:2008	LC-MS/MS method only
		7	Fenitrothion	Foods of plant origin- Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and cleanup by dispersive SPE- QuEChERS-method BS EN15662:2008	LC-MS/MS method only
		8	Fenthion	Foods of plant origin- Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and cleanup by dispersive SPE- QuEChERS-method BS EN15662:2008	LC-MS/MS method only
		9	Malathion	Foods of plant origin- Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and cleanup by dispersive SPE- QuEChERS-method BS EN15662:2008	LC-MS/MS method only
		10	Methamidophos	Foods of plant origin- Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and cleanup by dispersive SPE- QuEChERS-method BS EN15662:2008	LC-MS/MS method only
		11	Monocrotophos	Foods of plant origin- Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and cleanup by dispersive SPE- QuEChERS-method BS EN15662:2008	LC-MS/MS method only
		12	Methidathion	Foods of plant origin- Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and cleanup	LC-MS/MS



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				by dispersive SPE- QuEChERS-method BS EN15662:2008	method only
		13	Parathion	Foods of plant origin- Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and cleanup by dispersive SPE- QuEChERS-method BS EN15662:2008	LC-MS/MS method only
		14	Parathion-methyl	Foods of plant origin- Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and cleanup by dispersive SPE- QuEChERS-method BS EN15662:2008	LC-MS/MS method only
		15	Phorate	Foods of plant origin- Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and cleanup by dispersive SPE- QuEChERS-method BS EN15662:2008	LC-MS/MS method only
		16	Profenofos	Foods of plant origin- Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and cleanup by dispersive SPE- QuEChERS-method BS EN15662:2008	LC-MS/MS method only
		17	Quinalphos	Foods of plant origin- Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and cleanup by dispersive SPE- QuEChERS-method BS EN15662:2008	LC-MS/MS method only
		18	Triazophos	Foods of plant origin- Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and cleanup by dispersive SPE- QuEChERS-method BS EN15662:2008	LC-MS/MS method only
		19	Isocarbophos	Foods of plant origin- Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and cleanup by dispersive SPE- QuEChERS-method BS EN15662:2008	LC-MS/MS method only



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		20	Carbophenothion	Foods of plant origin- Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and cleanup by dispersive SPE- QuEChERS-method BS EN15662:2008	LC-MS/MS method only
		21	Fenamiphos	Foods of plant origin- Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and cleanup by dispersive SPE- QuEChERS-method BS EN15662:2008	LC-MS/MS method only
		22	Iprobenfos	Foods of plant origin- Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and cleanup by dispersive SPE- QuEChERS-method BS EN15662:2008	LC-MS/MS method only
		23	Phenthoate	Foods of plant origin- Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and cleanup by dispersive SPE- QuEChERS-method BS EN15662:2008	LC-MS/MS method only
		24	Phosalone	Foods of plant origin- Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and cleanup by dispersive SPE- QuEChERS-method BS EN15662:2008	LC-MS/MS method only
		25	Phosmet	Foods of plant origin- Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and cleanup by dispersive SPE- QuEChERS-method BS EN15662:2008	LC-MS/MS method only
		26	Phosphamidon	Foods of plant origin- Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and cleanup by dispersive SPE- QuEChERS-method BS EN15662:2008	LC-MS/MS method only
		27	Pirimiphos-methyl	Foods of plant origin— Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and cleanup	LC-MS/MS



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				by dispersive SPE— QuEChERS-method BS EN15662:2008	method only
28			α -666	Determination of BHC and DDT residues in plant products for import and export-sulfonane method SN/T 0145-2010	
29			β -666	Determination of BHC and DDT residues in plant products for import and export-sulfonane method SN/T 0145-2010	
30			γ -666	Determination of BHC and DDT residues in plant products for import and export-sulfonane method SN/T 0145-2010	
31			δ -666	Determination of BHC and DDT residues in plant products for import and export-sulfonane method SN/T 0145-2010	
32			p,p'-DDE	Determination of BHC and DDT residues in plant products for import and export-sulfonane method SN/T 0145-2010	
33			p,p'-DDD	Determination of BHC and DDT residues in plant products for import and export-sulfonane method SN/T 0145-2010	
34			o,p'-DDT	Determination of BHC and DDT residues in plant products for import and export-sulfonane method SN/T 0145-2010	
35			p,p'-DDT	Determination of BHC and DDT residues in plant products for import and export-sulfonane method SN/T 0145-2010	
36			Aldrin	Determination of BHC and DDT residues in plant products for import and export-sulfonane method SN/T 0145-2010	
37			Heptachlor	Determination of BHC and DDT residues in plant products for import and export-sulfonane method SN/T 0145-2010	
38			Bifenthrin	Determination of multiple pyrethroid residues in food for import and export-Gas chromatography method SN/T 1117-2008	
39			Cypermethrin	Determination of multiple pyrethroid residues in food for import and export-Gas chromatography method SN/T 1117-2008	
40			Deltamethrin	Determination of multiple pyrethroid residues in food for import and export-Gas chromatography method SN/T 1117-2008	
41			Fenpropathrin	Determination of multiple pyrethroid residues in food for import and export-Gas chromatography method SN/T 1117-2008	



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		42	Fenvalerate	Determination of multiple pyrethroid residues in food for import and export-Gas chromatography method SN/T 1117-2008	
		43	Lambda-Cyhalothrin	Determination of multiple pyrethroid residues in food for import and export-Gas chromatography method SN/T 1117-2008	

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