

Annex 03-03

Agency: World health Organization

To Distribution Plan Phase VI Sector: Water and Sanitation

			Quantity required per governorate				Remarks
Code No	Commodity	Supplier	Dohuk	Erbil	Sul.	Total	Location etc.
03-03-00001	Autoclave electric (Cat No. A85 - 229)	Philip harris	1	1	1	3	
03-03-00002	Autoclave electric (Cat No. A85 - 100)	Philip harris	1	1	1	3	
03-03-00003	Binder Microbiological Incubator (Cat No. 150 - 021)	Philip harris	1	1	1	3	
03-03-00004	Binder Microbiological Incubator (Cat No. 150 - 022)	Philip harris	1	1	1	3	
03-03-00005	Water Bath (Cat No. B22 - 217)	Philip harris	2	2	2	6	
03-03-00006	Water Bath (Cat No. B22 - 219)	Philip harris	1	1	1	3	
03-03-00007	Refrigerator 277 litres capacity (cat No. R34 - 594)	Philip harris	2	2	2	6	
03-03-00008	Balance OHAUS (cat No. BB250 - 10)	Patterson	2	2	2	6	
03-03-00009	Denver pH meter (cat No. P40 - 016)	Philip harris	3	3	3	9	
03-03-00010	Test tube with rim 150*18mm Pack of 100 (cat No. T37- 521)	Philip harris	20 Pack	20 Pack	20 Pack	60 Pack	
03-03-00011	Durham tube 7.5 * 50 mm, Pack of 100		25 Pack	25 Pack	25 Pack	75 Pack	
03-03-00012	Sample bottle 200 ml (cat No. BR350 - 40)	Patterson	1000	2000	2000	5000	
03-03-00013	Bunsen Burner (cat No. BY100 - 10)	Patterson	6	6	6	18	
03-03-00014	Tungsten Halogen Lamp for Jenway Spectrophotometer 6105		5	5	5	15	
03-03-00015	Deuterium Lamp for Jenway Spectrophotometer 6105		5	5	5		
03-03-00016	Tungsten Halogen Lamp for CECIL 9000 Spectrophotometer		5	5		10	
03-03-00017	Deuterium Lamp for CECIL 9000 Spectrophotometer		5	5		10	
03-03-00018	Tungsten Halogen Lamp for CECIL 4000 Spectrophotometer		5			5	
03-03-00019	Deuterium Lamp for CECIL 4000 Spectrophotometer		5			5	
03-03-00020	Flask Flat bottom wide neck 3000 ml capacity Pyrex		6	6	6	18	
03-03-00021	Inoculation Loop		10	10	10	30	
03-03-00022	Stirring Magnetic follower, Cylindrical (cat No. S72 - 738)	Philip harris	10	10	10	30	
03-03-00023	Stirring Magnetic follower, Cylindrical (cat No. S72 - 740)	Philip harris	10	10	10	30	
03-03-00024	Stirring Magnetic follower, Cylindrical (cat No. S72 - 744)	Philip harris	10	10	10	30	
03-03-00025	Timer, Stop Watch (cat No. T45 - 510)	Philip harris	4	6	6	16	
03-03-00026	Automatic Zero Burettes (Cat No. BW615 - 06)	Patterson	4	8	8	20	
03-03-00027	Automatic Zero Burettes (Cat No. BW615 - 08)	Patterson	4	8	8	20	
03-03-00028	Reservoir bottle for Automatic Zero Burettes (cat No. BW617 - 04)	Patterson	4	8	8	20	
03-03-00029	Reservoir bottle for Automatic Zero Burettes (cat No. BW617 - 06)	Patterson	4	8	8	20	

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Code No	Commodity	Supplier	Dohuk	Erbil	Sul.	Total	Location etc.
03-03-00030	2100 N Laboratory Turbidimeter (cat No. 000 - 300)	SANDBERG'S	2	3	3	8	
03-03-00031	Vacuum Cleaner (Cat No. 222/0300/01)	BDH	1	1	1	3	
03-03-00032	Chemical Calculator, CH 109 (Cat No. 271/0233/02)	BDH	2	3	2	7	
03-03-00033	Desiccators, Glass (Cat No. 229/0354/03)	BDH	2	2	2	6	
03-03-00034	Funnel Separating PMP(TPX), (Cat No. 237/0363/02)	BDH	2	4	2	8	
03-03-00035	Funnel Separating PMP(TPX), (Cat No. 237/0363/06)	BDH	2	4	2	8	
03-03-00036	Separating Funnel Holder (Cat No. 261/0820/01)	BDH	2	4	2	8	
03-03-00037	Separating Funnel Holder (Cat No. 261/0820/02)	BDH	2	4	2	8	
03-03-00038	Stopper, Silicone rubber solid (Cat No. 226/0100/10	BDH	20 Pack	30 Pack	30 Pack	80 Pack	
03-03-00039	Stopper, Silicone rubber solid (Cat No. 226/0100/19	BDH	20 Pack	30 Pack	30 Pack	80 Pack	
03-03-00040	Flask volumetric 50 ml capacity Pyrex (Cat No. 241/1565/04).	BDH	30	60	40	130	
03-03-00041	Flask volumetric 100 ml capacity Pyrex (Cat No. 241/1565/05).	BDH	30	60	40	130	
03-03-00042	Flask volumetric 1000 ml capacity Pyrex (Cat No. 241/1565/19).	BDH	10	20	10	40	
03-03-00043	Deuterium Lamp for UVIKON Spectrophotometer 922				5	5	
03-03-00044	Tungsten Halogen Lamp for UVIKON Spectrophotometer 922				5	5	
03-03-00045	MONTANA Generator JS 60, 60 KVA, 50 Hz	SDMO Energy LTD.			1	1	
	Food Control Laboratories-Equipment, Glassware, Chemicals and Media						Priorities: 1 2 3
03-03-00046	Equipment and Glassware: Atomic Absorption Spectrometer*, equipped with:	Perkin Elmer Schematzu Philips (formerly Pye Unicam)	1	1	1	3	2
	a) Nebuliser Assembly b) Acetylene / Air Burner Head (see Item 124: <u>Ion Chromatograph</u> as an important option).	Perkin Elmer Schematzu Philips (formerly Pye Unicam)	1 of each	1 of each	1 of each	3	2
	c) Hollow-cathode lamps specific for sodium, calcium, magnesium, sodium, arsenic, copper, lead, mercury, iron, aluminium, barium, boron, antimony, tin, nickel, cadmium, manganese, zinc, cobalt and chromium.	Perkin Elmer Schematzu Philips (formerly Pye Unicam)	1 each	1 each	1 each	3 sets of each	2
03-03-00047	Beakers, 250 ml, borosilicate glass, beaded rim, graduated with spout (Short form).		10	10	10	30	1

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Code No	Commodity	Supplier	Dohuk	Erbil	Sul.	Total	Location etc.
03-03-00048	Beakers, 150 ml, borosilicate glass, beaded rim, graduated with spout (Tall form).		15	15	15	45	1
03-03-00049	Beakers, 100 ml, borosilicate glass, beaded rim, graduated with spout (Tall form).		5	5	5	15	1
03-03-00050	Beakers, 25 ml, borosilicate glass, beaded rim, graduated with spout (Tall form).		5	5	5	15	1
03-03-00051	Beakers, 10 ml, borosilicate glass, beaded rim, graduated with spout (Tall form).		10	10	10	30	1
03-03-00052	Beakers, glass, 5000 ml.		2	2	2	6	1
03-03-00053	Beakers, glass, 400 ml, short neck, Class A.		4	4	4	12	1
03-03-00054	Balance, electronic top loading (reading to 0.01g).		1	1	1	3	1
03-03-00055	Balance reading to 0.0001g.		1	1	1	3	1
03-03-00056	Blender (Waring-type, capacity 1L).		1	1	1	3	1
03-03-00057	Burettes, 50 ml, calibrated to 0.1ml.		4	4	4	12	1
03-03-00058	Burettes, 250mL, digital, calibrated to 0.01ml.		4	4	4	12	1
03-03-00059	Burettes, PTFE, 50ml, Class A.		2	2	2	6	1
03-03-00060	Centrifuge (tube type), of a speed of at least 1000 rpm.			1	1	2	1
03-03-00061	Condensers, reflux.		3	3	3	9	1
03-03-00062	Drying Cabinet for glassware, with rust proof wire mesh shelves or similar.		1	1	1	3	1
03-03-00063	Filter, 0.45 µm.		1	1	1	3	1
03-03-00064	Filter paper, Whatman No.4 or similar.		5 boxes	5 boxes	5 boxes	15 boxes	1
03-03-00065	Flasks, Round-bottom, 250 ml.		5	5	5	15	1
03-03-00066	Flasks, Conical, 250 ml, Class A.		5	5	5	15	1
03-03-00067	Flasks, Conical, 250 ml, Class B.		5	5	5	15	1
03-03-00068	Flasks, Conical, 50, 100, 150 and 250 ml.		3	3	3	9	1
03-03-00069	Flasks, Volumetric, 1, 2, 3, 4, 5, 10, 20, 25, 50 ml		3	3	3	9	1
03-03-00070	Flasks, Volumetric, 100, 250, 500 ml.		5	5	5	15	1
03-03-00071	Flasks, Volumetric, 1000 ml.		2	2	2	6	1
03-03-00072	Gas Chromatograph with flame ionization detector, coupled with Mass Selective Detector and MS data library.	Varian, Perkin Elmer, Hewlett Packard, Philips (Pye Unicam)	1	1	1	2	1
	Gas Chromatograph with flame ionization detector.	" "				1	
		" "					
03-03-00073	Gas Chromatographic Capillary Column : 60 m x 0.2 mm, ID, coated with HP Innowax (cross-linked polyethylene glycol).	" " "	1	1	1	3	1

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Code No	Commodity	Supplier	Dohuk	Erbil	Sul.	Total	Location etc.
03-03-00074	Gas chromatographic column (packed), 6ft x 2mm, ID 0.25 inches, packed with 10% DEGS on Chromosorb WHP.	" " "	1	1	1	3	1
03-03-00075	Gloves, disposable, natural rubber, non-sterile, size 7-8.		5 boxes	5 boxes	5 boxes	15 boxes	1
03-03-00076	Hamilton syringes, 250 µL.		4	4	4	12	1
03-03-00077	Hot plate with magnetic stirrer.		1	1	1	3	1
03-03-00078	Iodine flasks with glass stoppers; 250 ml.		6	6	6	18	1
03-03-00079	*Ion Selective Analyser, with electrodes for measuring anions (Fluoride, chloride, nitrate, nitrite, sulphate, carbonate, bicarbonate and pH)*. See option 124		1 of each	1 of each	1 of each	3 of each	1
03-03-00080	Liquid Chromatograph, High Performance (HPLC) with the following specifications and accessories as follows:	Suggested manufacturers:	1	1	1	3	1
	i) Chemstation and Think-Jet), suitable for isocratic elution and fitted with:	Perkin Elmer	1	1	1	3	1
	ii) 20µL injection loop,	Waters					
	iii) Stainless steel column (250 × 4.6mm I.D, Inertsil 5 ODS-2),	Hewlett Packard	1	1	1	3	
	iv) Diode-Array UV detector (for food additives 'e.g. colours', and preservatives),	Schimatzu	1	1	1	3	
			1	1	1	3	
	v) PV5 Ternary SDS three channel pump,		1	1	1	3	1
	vi) 125 µL injector loop,		1	1	1	3	
	vii) Stainless steel RP column (250 m x 4.6mm), packed with 5 µm Spherisorb ODS1,	Perkin Elmer	1	1	1	3	
	viii) Post-column reactor with reactor coil (10 feet x 0.01inch ID, Teflon tubing),	Waters					
		Hewlett Packard	1	1	1	3	
		Schimatzu					
	ix) Programmable Fluorescence Detector, PFD and		1 of each	1 of each	1 of each	3 of each	2
	x) EASI EXTRACT T.M. column (Bio Code) with Item 51: Syringe adapter (for aflatoxin determination).						
03-03-00081	Magnetic bars, polypropylene, 20mm, cylindrical shape.		5	5	5	15	1
03-03-00082	Measuring cylinders 25ml.		5	5	5	15	1
03-03-00083	Measuring cylinders 100 ml.		5	5	5	15	1

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Code No	Commodity	Supplier	Dohuk	Erbil	Sul.	Total	Location etc.
03-03-00084	Measuring cylinder 50ml.		5	5	5	15	1
03-03-00085	Measuring cylinders 10 ml (short form).		5	5	5	15	1
03-03-00086	Meat Species Identification Kit (Cortecs Diagnostics), with Automatic Reader and Microwell Washer, including:		1 each	1 each	1 each	3 each	1
	a) Positive Controls for beef, pork and chicken.		2	2	2	6	1
	b) Biotinylated anti - species antibody.		1	1	1	3	1
	c) Avidin Peroxidase conjugate.		1	1	1	3	1
	d) ABTS concentrate (1.5%).		1	1	1	3	1
	e) Peroxide Citrate buffer.		1	1	1	3	1
	f) "Stop" solution (1.5% w/v sodium fluoride).		1	1	1	3	1
	g) Cooked antibody sensitized microwell module.		1	1	1	3	1
	h) Concentrated Wash Solution Absorbent Tissues.		1	1	1	3	1
03-03-00087	Freezer, workable at -18 °C						2
03-03-00088	Micropipettes, digital (2µL, 10-50µL,20-100µL, 200-1000 µL).		1 each	1 each	1 each	3	1
03-03-00089	Micro spatula.		10	10	10	30	1
03-03-00090	Microsyringes, 1.0 µL, graduated.		4	4	4	12	1
03-03-00091	Orbital shaker.		1	1	1	3	1
03-03-00092	Pasteur pipettes.		3	3	3	9	1
03-03-00093	Pipettes (1.0mL, 2.0mL, 5.0mL), graduated to 0.1 ml.		5 each	5 each	5 each	15	1
03-03-00094	Pipettes, 10, 20, 25, 50, 100 ml.		10 each	10 each	10 each	30	1
03-03-00095	Polarimeter, with 200 mm observation tube.		1	1	1	3	1
03-03-00096	Reagent bottles, 1000 ml capacity		6	6	6	12	1
03-03-00097	Roto-evaporator with accessories (water bath, round bottom quick fit flasks (3) of 100, 250 and 500 ml, flask holder, flask rotater and condenser.		1	1	1	3	1
03-03-00098	Syringes, 50, 100, 500 µL, to suit Item 36 requirements.		2	2	2	6	1
03-03-00099	Syringes, 0.5 µL, SGE, Series II, for gas chromatography, with needle point, Style I.		2	2	2		1
03-03-00100	Syringes, non-sterile, plastic, disposable, luer fitting with needles, of 5 ml capacity.		10	10	10		1
03-03-00101	Test tubes, pyrex, stoppered and graduated, 10 ml.						1

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Code No	Commodity	Supplier	Dohuk	Erbil	Sul.	Total	Location etc.
03-03-00102	Test tubes, 50ml. Tissue paper, Eurosel 25 x 33 cm.		10 6 cartons	10 6 cartons	10 6 cartons		1
03-03-00103	Thin-Layer Chromatography (TLC) Kit, Camlab, including 20x20 cm glass plates (box of 25), coating stand, spreader (1), silica gel G (2 bottles) and silica gel G pre-coated aluminium foil sheets (box of 20 sheets).		As noted in parenthesis	As noted in parenthesis	As noted in parenthesis	3 sets	1
03-03-00104	Universal bottles, transparent, screw-capped, 30 ml.		10	10	10	30	1
03-03-00105	Vaccum Pump, RV3, portable, 220-240 volts.		1	1	1	3	1
03-03-00106	Water Still, single distillation.		1	1	1	3	1
03-03-00107	*Important option to replace both the Atomic Absorption Spectrometer (for metal ions) and the Ion Selective Analyser (for anions), is the Ion Chromatograph for collective determination of both cations and anions in food and water samples.	Perkin Elmer Waters Hewlett Packard Schimatzu	-	1	1	2	1
03-03-00108	Radioactivity monitors, Germanium detector monitor and ii) B-Scintillater for measuring radioactive nuclides in foods and underground water, OR Sodium Iodide Detector	Oxford Instruments Ltd, Oak Ridge, TN, USA	-	1	1	2	2
03-03-00109	Air Oven (103 ±2 B94).		1	1	1	3	1
03-03-00110	Autoclave, top loading, 32.7 litres, WARE 01920/468727/8, can be calibrated by a multi-channel (5) thermocouple system.	Ware, UK	1	1	1	3	1
03-03-00111	ATB System for Rapid ID 32 E, from ATB bioMerieux, Lyon, France; for biochemical screening of Salmonella spp, ATB Instruments consists of:	bioMerieux, Lyon, France;	1	1	1	3	1
	a) Identification system software.	bioMerieux, Lyon, France;	1	1	1	3	1
	b) ATB Automatic Inoculator	bioMerieux, Lyon, France;	1	1	1	3	1
	c) ATB Densitometer	bioMerieux, Lyon, France;	1	1	1	3	1
	d) ATB pipettes (135 µL, and 55 µL).	bioMerieux, Lyon, France;	1 each	1 each	1 each	3 each	1
	e) ATB ID 32 E strips.	bioMerieux, Lyon, France;	1 box of 12	1 box of 12	1 box of 12	3 boxes	1

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Code No	Commodity	Supplier	Dohuk	Erbil	Sul.	Total	Location etc.
	f) Sodium chloride (85% in 3ml ampoules)	bioMerieux, Lyon, France;	10 boxes	10 boxes	10 boxes	30 boxes	1
	g) Mineral Oil, sterile.	bioMerieux, Lyon, France;	as per kit	as per kit	as per kit		1
	h) Mc Farland solution standards	bioMerieux, Lyon, France;	1 box	1 box	1 box	3 boxes	1
	i) James Reagent (0.5g component J 2183 in 100 ml 1N HCl). J) ATB tips.	bioMerieux, Lyon, France;	2 ampoules -	2 ampoules -	2 ampoules -	6 ampoules -	1
03-03-00112	Balance with weights, of 2500 g or more capacity, with 0.1 g sensitivity.		1	1	1	3	1
03-03-00113	Balance (top loading), with weights, up to 200g working range, with 0.01g sensitivity.	e.g. Sartorius	1	1	1	3	1
03-03-00114	Beakers, pyrex, graduated, 100 ml, 250 ml, 500 ml, 1000 ml.		6 each	6 each	6 each	18	1
03-03-00115	Colony Counter (with a felt tip pen, choice of light or dark background and electronic pressure sensor with audible count tone, magnifying glass for 100-110 mm Petri dishes, with accessory centring device for 90 mm Petri dishes; with a 999 maximum count.		1	1	1	3	1
03-03-00116	Conical flasks, graduated with narrow mouth, 250 ml.		10	10	10		1
03-03-00117	Conical flasks, graduated with narrow mouth, 500 ml.		10	10	10		1
03-03-00118	Conical flasks, graduated with narrow mouth, 1000 ml.		4	4	4		1
03-03-00119	Conical flasks, graduated with narrow mouth, 2000 ml.		2	2	2		1
03-03-00120	Disposable bags, autoclavable.		5 boxes	5 boxes	5 boxes	15 boxes	1
03-03-00121	Dropping pipettes capable of dropping about 0.02 ml drops.		1 box	1 box	1 box	3 boxes	1
03-03-00122	Fermentation Durham Tubes Four-components Milk Analyser, Foss Electric, Denmark. Fume Cupboard		1 box - -	1 box 1 1	1 box 1 1	3 boxes 2 2	1
03-03-00123	Glass containers, suitable for incubating and centrifuging food specimens.		8	8	8	24	1
03-03-00124	Glass rods (spreaders, hockey-stick-shaped, bent at right angles 3 cm from one end).		50	50	50	150	1
03-03-00125	Glass slides		100	100	100	300	1
03-03-00126	Hot plate with magnetic stirrer, heating area 180 mm diameter.		1	1	1	3	1
03-03-00127	Incubator; for working at 55 °C, about 100 litres capacity	Memmert, Germany	1	1	1	3	1

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Code No	Commodity	Supplier	Dohuk	Erbil	Sul.	Total	Location etc.
03-03-00128	Incubator; for working at 44 ± 0.2 °C, " " " "	" "	1	1	1	3	1
03-03-00129	Incubator at 37 °C " " " "	" "	1	1	1	3	1
03-03-00130	Incubator; for working at 27 °C " " " "	" "	1	1	1	3	1
03-03-00131	Instruments for preparing samples: knives, forceps, forks, scissors, spoons, spatulas.		3 each	3 each	3 each	9 of each	1
03-03-00132	Laminar Flow Cabinet		1	1	1	3	1
03-03-00133	Mechanical food blenders capable of homogenizing 4-20 ml sample sizes.		2	2	2	6	1
03-03-00134	Pipettes, 1-, 2-, 5- and 10-ml bacteriological pipettes (also 1 ml with 0.1 ml subdivisions or less), with suction bulbs.		1 each	1 each	1 each	3	1
03-03-00135	Pipette dispensers, 10 ml with tips.		2 each	2 each	2 each	6	1
03-03-00136	Petri dishes, glass (100 x 15 mm) and plastic (90 x 15 mm), all with lids.		100 each	100 each	100 each	300	1
03-03-00137	Refrigerators - 2 (3-5 °C or 1-4 °C).		1 each	1 each	1 each	3	1
03-03-00138	Sample jars 250 and 500 ml, screw-capped.		2 each	2 each	2 each	6	1
03-03-00139	Timer with alarm, digital		4	4	4	12	1
03-03-00140	Polystyrene sterile Petri dishes 90 mm x 14mm.		20	20	20		1
03-03-00141	Screw-capped bottles, 25 ml.		100	100	100		1
03-03-00142	Serological Testing Requirements for Salmonella:						1
03-03-00143	Microscope (CETI)		1	1	1		1
03-03-00144	Sterile loops, disposable plastic (3 mm diameter).		box of 50	box of 50	box of 50		1
03-03-00145	Droppers		50	50	50		1
03-03-00146	Polyvalent O (somatic) and Polyvalent H (flagellar) antisera.	(Biotech)	3 vials each	3 vials each	3 vials each	9 vials of each	1
03-03-00147	Normal saline solution, 1x250 ml		1	1	1	3	1
03-03-00148	Sterile loops (inoculating needles, preferably with nichrome or platinum iridium wire.		10	10	10	30	1
03-03-00149	Stomacher 400 and Stomacher bags for Stomacher 400.		1 1 box of 6	1 1 box of 6	1 1 box of 6	3 3 boxes	1
03-03-00150	Tally register.		1	1	1	3	1
03-03-00151	Test tube racks, 60 tubes (15 x 16 mm) capacity, stainless steel.		4	4	4	12	1
03-03-00152	Test tubes with autoclavable caps.		60	60	60	180	1
03-03-00153	Thermocouples (multi-channel kit), for autoclave calibration, BS 4937 Part 4, RS Thermocouples Products, UK.			1	1	2	1
03-03-00154	Universal bottles (100).		100	100	100	300	1

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03-03-00155	Water Bath; for working at 42 ± 0.2 °C.		1	1	1	3	1
03-03-00156	Water bath for working at 50 ± 1 °C.		-	1	1	2	1
03-03-00157	Washing Machine for glassware (test tubes and flasks).		1	1	1	3	1
03-03-00158	Three-shelf Trolley, 400x600 mm		1	1	1	3	1
03-03-00159	Lovibond Tintometer,	he Tintometer LTD, Salisbury, England. 1		1	1	3	1
03-03-00160	Absolute ethanol (ethyl alcohol) - analytical GC-MS grade.		5 x 10 ml	5 x 10 ml	5 x 10 ml	15x10ml	1
03-03-00161	Acetic acid, glacial.		1 x 2.5L	1 x 2.5L	1 x 2.5L	3 x 2.5 L	1
03-03-00162	Acetonitrile, Extraction solvent, HPLC grade.		10 x 2.5 L	10 x 2.5 L	10 x 2.5 L	30 x 2.5L	1
03-03-00163	Acetylene, high purity, in cylinders.		1	1	1	3	1
03-03-00164	Aflatoxin standards of B1, B2, G1 and G2 at concentrations sufficient to give a chromatographic response.		1 set of standards	1 set of standards	1 set of standards	1 set of standards	1
03-03-00165	Air in cylinders (cleaned and dried from compressor or cylinder).		1	1	1	3	1
03-03-00166	Ammonium acetate.		1 x 250ml	1 x 250ml	1 x 250ml	3	1
03-03-00167	Benzoic acid as sodium benzoate, neat standard, vials.		1 x 2 gm	1 x 2 gm	1 x 2 gm	3	1
03-03-00168	Boron trifluoride, ampoules.		20 ampoules	20 ampoules	20 ampoules	60	1
03-03-00169	Carbon tetrachloride, AR.		1 x 2.5 L	1 x 2.5 L	1 x 2.5 L	3	1
03-03-00170	Chloroform, HPLC.		10 x 2.5 L	10 x 2.5 L	10 x 2.5 L	30	1
03-03-00171	De-ionised Water (as a local laboratory product or purchased from manufacturer).**		5 x 2.5	5 x 2.5	5 x 2.5	15	3
03-03-00172	Diethyl ether AR		10 x 2.5	10 x 2.5	10 x 2.5	30	1
03-03-00173	DPD tablets, for free chlorine.		500 tablets	500 tablets	500 tablets	1500tabs	1
03-03-00174	Eriochrome Black T indicator, solid. (to be prepared as 0.4g in 100 ml methanol)		20 gm	20 gm	20 gm	60 gm	1
03-03-00175	Ethyl alcohol (96%, v/v)		10 x 2.5 L	10 x 2.5 L	10 x 2.5 L	30 x 2.5L	1
03-03-00176	Ethylenediaminetetraacetic acid, EDTA (0.1 M) - volumetric solution or equivalent.		2 L	2 L	2 L	6 L	1
03-03-00177	Fatty acid methyl esters (saturated straight chain group of C12-C24; unsaturated group of C16:1, C18:1, 18:2, 18:3, 20:1 and 22:1)		1 kit, in vials.	1 kit, in vials.	1 kit, in vials.	3	1
03-03-00178	Helium gas (High Purity)		1 cylinder	1 cylinder	1 cylinder	3	1
03-03-00179	Heptane, A. R.		2 x 2.5 L	2 x 2.5 L	2 x 2.5 L	6x2.5L	1

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Code No	Commodity	Supplier	Dohuk	Erbil	Sul.	Total	Location etc.
03-03-00180	Hexane, n-		2 x 2.5 L	2 x 2.5 L	2 x 2.5 L	6x2.5L	1
03-03-00181	Hydrochloric acid, AR, 37%		3 x 2.5 L	3 x 2.5 L	3 x 2.5 L	9x2.5L	1
03-03-00182	Iodine, Wij's iodine monochloride solution 0.1M volumetric solution.		2 x 2.5 L	2 x 2.5 L	2 x 2.5 L	6x2.5L	1
03-03-00183	Lanthanum chloride for Atomic Absorption Spectrometric analysis.		1 x 100 gm	1 x 100 gm	1 x 100 gm	300gm	1
03-03-00184	Methanol (dry)		4 x 2.5 L	4 x 2.5 L	4 x 2.5 L	12x2.5L	1
03-03-00185	Methanol (HPLC grade),		10 x 2.5 L	10 x 2.5 L	10 x 2.5 L	30x2.5L	1
03-03-00186	Methanol		5 x 2.5 L	5 x 2.5 L	5 x 2.5 L	15x2.5L	1
03-03-00187	Nitric acid, 70%.		1 x 2.5 L	1 x 2.5 L	1 x 2.5 L	3x2.5L	3
03-03-00188	Petroleum benzene 40 - 60 °C		5 x 2.5 L	5 x 2.5 L	5 x 2.5 L	15x2.5L	1
03-03-00189	Phenolphthalein (1% m/v solution in ethyl alcohol).		1 x 50 ml	1 x 50 ml	1 x 50 ml	3x50ml	1
03-03-00190	pH indicator strip (range 0 - 14) Phloroglucinol, for Kreis test (carbonyl compounds in oils and fats).		5 rolls 2 x 500ml	5 rolls 2 x 500ml	5 rolls 2 x 500ml	15 rolls 6x500ml	1
03-03-00191	Phosphate Buffer Saline (PBS), as tablets of PBS.		1000 tabs	1000 tabs	1000 tabs	3000tabs	1
03-03-00192	Potassium chromate indicator.		500 g	500 g	500 g	3x500g	1
03-03-00193	Potassium iodide, for daily preparation of solution (10% w/v)-freshly prepared on day of use. Amyl acetate, solution in bottles.		4 x 250 g 1 x 500 ml	4 x 250 g 1 x 500 ml	4 x 250 g 1 x 500 ml	12 x 250g 3x500ml	1
03-03-00194	Propanol, N-		1 x 2.5 L	1 x 2.5 L	1 x 2.5 L	3x2.5L	1
03-03-00195	Silver nitrate, 0.1 N AR grade, or equivalent		2 x 500 ml	3 x 500 ml	4 x 500 ml	9x500ml	1
03-03-00196	Sodium chloride, AR.		3 x 500 g	4 x 500 g	5 x 500 g	12x500g	1
03-03-00197	Sodium hydroxide - 0.1M volumetric solution or equivalent.		2 x 2.5 L	2 x 2.5 L	2 x 2.5 L	6x2.5L	1
03-03-00198	Sodium hydroxide -pellets.		1 x 500 g	1 x 500 g	1 x 500 g	3x500g	1
03-03-00199	Sodium hydroxide solution 1.0 ± 0.2 N		2 x 2.5 L	2 x 2.5 L	2 x 2.5 L	6x2.5L	1
03-03-00200	Sodium metal in paraffin		1 x 100 g	2 x 100 g	2 x 100 g	5x100g	1
03-03-00201	Sodium sulphate, anhydrous.		2 x 250 g	3 x 250 g	4 x 250 g	9x250g	1
03-03-00202	Sodium thiosulphate 0.1M volumetric solution		2 x 2.5 L	2 x 2.5 L	2 x 2.5 L	6x2.5L	1
03-03-00203	Sorbic acid as potassium sorbate, neat preservative standard, vials.		1 x 2 g	1 x 2 g	1 x 2 g	3x2g	1
03-03-00204	Standard stock solutions for metals (Spectrosol Grade), for sodium, potassium, calcium, magnesium, arsenic, copper, lead, mercury, iron, aluminium, barium, tin, nickel, cadmium, manganese, zinc, cobalt and chromium, nitrates (1000 mg/L), in glass bottles.		1 x 250 ml each	1 x 250 ml each	1 x 250 ml each	3x250ml	1

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Code No	Commodity	Supplier	Dohuk	Erbil	Sul.	Total	Location etc.
03-03-00205	Starch (1% w/v solution) freshly prepared weekly.		50 g	50 g	50 g	150g	1
03-03-00206	Sugar pure standards of fructose, glucose and sucrose.		2 x 5 g each	2 x 5 g each	2 x 5 g each	6x5g	1
03-03-00207	Sulphuric Acid (18M).		2 x 2.5 L	2 x 2.5 L	2 x 2.5 L	6x2.5L	1
03-03-00208	Water, HPLC "Spectrograde".		2 L	2 L	2 L	6L	1
03-03-00209	Freezer, workable at -18 °C						3
03-03-00210	Ringer Solution (Tablets 1/4 Strength, Oxoid)	BR 52, Oxoid	15	20	25	60 bottle	1
03-03-00211	Maximum Recovery Diluent, MRD	CM 733, Oxoid	5	10	15	30 "	1
03-03-00212	Baird Parker agar base, Oxoid).	CM 275, Oxoid	15	15	15	45 "	1
03-03-00213	Egg yolk Tellurite emulsion	SR 54, Oxoid.	15	15	15	45 "	1
03-03-00214	Staphylase test kit , including ;	DR 595 Oxoid	2	2	2	6 kits	1
	a) Staphylase test reagent b) Staphylase control reagent c) Staphylase disposable reaction cards	"	as per kit	as per kit	as per kit		1
03-03-00215	Staphylase Disposable reaction cards	"					
03-03-00216	Pre-enrichment Medium: Buffered Peptone Water- BPW, Oxoid.	CM509, Oxoid	as per kit	as per kit	as per kit	30 bottles	1
			10	10	10		
03-03-00217	Selective Enrichment Media:						1
03-03-00218	Selenite F Broth Rappaport - Vassiliadis Soya Peptone broth (RVS).	DM 210, Mast Diagnostics " " " "	3	3	3	9 "	1
03-03-00219	Selective Agar Media:						1
	a) Brilliant Green Agar; Modified) b) Xylose Lysine Desoxycholate Medium; c) Standard Plate Count Agar, SPCA.	CM 329, Oxoid CM 469, Oxoid CM 463/464, Oxoid	8 6 8	8 6 8	8 6 8	24 " 18 " 24 "	1
03-03-00220	Media for producing stressed salmonella cells:						1
03-03-00221	a) Tryptone Soya Agar .	CM 131 Oxoid	1	1	1	3 "	1
03-03-00222	b) Violet Red Bile Agar .	CM 107 Oxoid	1	1	1	3 "	1
03-03-00223	Bacillus cereus Selective Agar.	CM 617, Oxoid	2	2	2	6 "	1

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Code No	Commodity	Supplier	Dohuk	Erbil	Sul.	Total	Location etc.
03-03-00224	Mac Conkey Broth Purple .	CM 5a Oxoid	10	12	15	37 "	1
03-03-00225	Brilliant Green Bile Broth 2%, BGB .	CM31/32, Oxoid.					1
03-03-00226	Tryptone Water.	CM 87, Oxoid					1
03-03-00227	Indole Reagent (Kovacs), for confirmation of Fecal coliforms (pure cultures), in Tryptone Broth or Peptone Water.		1	1	1	3 "	1
03-03-00228	Triple Sugar Iron Salt Agar, TSI 3 Agar, 7-8 cm depth in tubes (for Vibrio parahaemolyticus).		10	10	10	30 tubes	1
03-03-00229	Trypticase Soya 3% Na Cl Broth (TS 3 Broth), 7-10 ml in 150 x 15 mm tubes. ---Vibrio para-		10	10	10	30 tube	1
03-03-00230	Trypticase Soya 3% Na Cl Agar (TS 3 Agar), slants and plates. ---Vibrio para-		20	25	30	75 slants	1
03-03-00231	Motility Test 3% Na Cl Agar, 7-10 ml in 150 x 15 mm tubes (for Vibrio parahaemolyticus).		8	10	10	28 tubes	1
03-03-00232	Arginine Dihydrolase and Lysine Decarboxylase 3% Na Cl Broth, 3 ml in 100 x 13 mm tubes.		8	10	10	28 tubes	1
03-03-00233	Basal Medium for Arginine Dihydrolase and Lysine Decarboxylase, 3% Na Cl Broth, 3 ml in 100 x 13 mm tubes.		8	10	10	28 tubes	1
03-03-00234	Salts Trypticase Broth, 0%, 6%, 8% and 10% Na Cl, 7-10 ml in 150 x 15 mm tubes.		10	12	14	26 tubes	1
03-03-00235	MR-VP 3% Na Cl Broth, 1 ml in 100 x 13 mm tubes.		8	8	10	26 tubes	1
03-03-00236	Hugh-Leifson Salt Medium, 3 ml in 100 x 13 mm tubes, for confirmation of V. cholerae.		8	8	8	24 tubes	1
03-03-00237	Salts Carbohydrate Broth, tubes for each of sucrose and mannitol, 5 ml in 150x15 mm tubes.		10	10	10	30 tubes	1
03-03-00238	Wagatsuma Agar (modified), for plates.		1	1	1	3 bottles	1
03-03-00239	Cytochrome Oxidase Reagents.		3	3	3	9 bottles	1
03-03-00240	Voges-Proskauer Test Reagents.		3	3	3	9 bottles	1
03-03-00241	Oxytetracycline Gentamicin Yeast Extract Glucose (OGY) Agar "for moulds and yeasts".	CM 545, Oxoid.	5	10	10	25 bottles	1
03-03-00242	Horse-blood agar, for plates.		1	1	1	3 bottles	1
03-03-00243	Lactose egg-yolk milk agar.		1	1	1	3 bottles	1
03-03-00244	Cooked meat medium.		1	1	1	3 boxes	1
03-03-00245	Peptone Sugar Broth.		3	4	6	13 tubes	1
03-03-00246	Peptone water, 2 %, containing 0.5 % Na Cl.		1	1	1	3 bottles	1

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Code No	Commodity	Supplier	Dohuk	Erbil	Sul.	Total	Location etc.
03-03-00247	Peptone Sugar Broths, 5 ml volumes in culture tubes.		5	5	5	15 tubes	1
03-03-00248	Neomycin sulphate.		1	1	1	3 bottles	1
03-03-00249	Gram Stain materials.		1 set	1 set	1 set	3 sets	1
03-03-00250	C. perfringens diagnostic antitoxin A OR;	Welcome Reagents	5 vials or ampoules	5 vials or ampoules	5 vials or ampoules	15 units	1
03-03-00251	Polyvalent C. Perfringens Diagnostic Antitoxin,						1
03-03-00252	Phenol-Red Egg-Yolk Polymixin (PREYP) Agar OR						1
03-03-00253	Egg-Yolk Polymixin Salt						1
03-03-00254	Triphenyltetrazolium Chloride (EYPSTC) Agar or Horse-Blood Agar, for plates.		1 set	1 set	1 set	3 sets	1
03-03-00255	Disinfectant bactericidal solution		50 litres	50 litres	50 litres	150 litres	1