



National Institute of Metrology (Thailand)

3/4-5 Moo 3, Klong 5, Klong Luang, Pathumthani, 12120, Thailand

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Item No.	Description	Range	Accuracy / Uncertainty	Price (THB)	Remark	Code
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Calibration Fee

Chemical Metrology and Biometry

1	Piston pipette	20 µL to 10 mL	0.04 µL	3,130 three point + 500 next point		12031 - 10201
		0.1 µl to 20 µl	0.04 µL	3,730 three point + 500 next point		12031 - 10202
2	Volumetric Flask	25 mL to 2000 mL	Class A	2,500/piece		12031 - 10203
3	Pipette	1 mL to 50 mL	Class A	2,500/piece		12031 - 10204
4	Burette	Up to 100 mL	Class A	2,500 two point + 500 next point		12031 - 10205
5	Pycnometer	1 mL to 500 mL	0.1% to 1%	2,500/piece		12031 - 10206
6	Potassium Dichromate Standard Solutions (Recalibrate)	20 to 100 mg/kg	0.003 A	7,500/set		12031 - 10301
7	Potassium Iodide Standard Solution (Recalibrate)	10 g/L	0.5 nm	6,500/set		12031 - 10302
8	Holmium Filter (Recalibrate)	200 nm to 700 nm	0.3 nm	5,650/piece		12031 - 10303
9	Didymium Filter (Recalibrate)	400 nm to 900 nm	0.3 nm	5,650/piece		12031 - 10304
10	Neodymium filter (Recalibration)	400 nm to 900 nm	0.3 nm	5,650/piece		12031 - 10307
11	Neutral Density Filter (Recalibrate)	400 nm to 700 nm	0.003 A	7,000/set		12031 - 10305
12	Recaibrate standard solution for stray light	10 g/L	0.12 nm	6,500/set		12031 - 10306
13	Assigned pH value for sample (secondary method)	3.99 - 4.02 pH	0.01 pH	2,500/sample		12031 - 10102
14	Assigned pH value for sample (secondary method)	6.85 - 6.88 pH	0.01 pH	2,500/sample		12031 - 10103
15	Assigned pH value for sample (primary method)	3.99 - 4.02 pH	0.008 pH	13,750/sample		12031 - 10104
16	Assigned pH value for sample (primary method)	6.85 - 6.88 pH	0.005 pH	13,750/sample		12031 - 10105



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17	Assigned pH value for sample (primary method)	9.16 - 9.20 pH	0.008 pH	13,750/sample		12032 - 10108
18	Assigned pH value for sample (secondary method)	1 - 12 pH	0.01 pH	2,500/sample		12031 - 10106
19	Assigned pH value for sample (primary method)	1 - 12 pH	0.008 pH	13,750/sample		12031 - 10107
20	pH meter with associated electrode	1 - 11 pH (-414.11 mV) to 414.11 mV	0.02 pH 0.06 mV	3,750/set		12031 - 10101
21	Assigned electrolytic conductivity value for sample (secondary method)	1413 mS/cm	0.2% relative	11,000 /sample		12031 - 10401
22	Assigned electrolytic conductivity value for sample (secondary method)	147 mS/cm	1% relative	11,000 /sample		12031-10402
23	Oxygen Gas Analyzer	1-30 cmol/mol	0.25-0.45% relative	11,500/item	3-point calibration	12051 - 10101
24	Carbon dioxide Analyzer	1-15 cmol/mol	1.0% relative	11,500/item	3-point calibration	12051 - 10201
25	Methane Analyzer	1-15 cmol/mol	0.35% relative	11,500/item	3-point calibration	12051 - 10301
26	Carbon Monoxide Gas Analyzer	5-100 µmol/mol	0.50-0.84% relative	11,750/item	3-point calibration	12051 - 10401

RMs/CRMs

Chemical Metrology and Biometry

27	5% Brix Sucrose Standard Solution (TRM-S-5001)	5.00 %Brix, 1.34026 nD	0.04 %Brix, 0.00007 nD	3,600/15 mL		12012 - 20201
	10% Brix Sucrose Standard Solution (TRM-S-5002)	10.00 %Brix, 1.34782 nD	0.04 %Brix, 0.00008 nD	3,600/15 mL		12011 - 20202
	20% Brix Sucrose Standard Solution (TRM-S-5003)	20.00%Brix, 1.36384 nD	0.04 %Brix, 0.00008 nD	3,600/15 mL		12011 - 20203
	30% Brix Sucrose Standard Solution (TRM-S-5004)	30.00 %Brix, 1.38115 nD	0.04 %Brix, 0.00008 nD	3,600/15 mL		12011 - 20204
	50% Brix Sucrose Standard Solution (TRM-S-5005)	50.00%Brix, 1.42009 nD	0.04 %Brix, 0.00008 nD	3,600/15 mL		12011 - 20205
	60% Brix Sucrose Standard Solution (TRM-S-5006)	60.00 %Brix, 1.44193 nD	0.04 %Brix, 0.00009 nD	3,600/15 mL		12011 - 20206
28	Benzene in methanol (TRM-S-5007)	1,000 mg/L	1.4 % Relative	4,750/8 mL		12011 - 20207



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29	Ethylbenzene in methanol (TRM-S-5008)	1,000 mg/L	1.1 % Relative	4,750/8 mL		12011 - 20208
30	Toluene in methanol (TRM-S-5009)	1,000 mg/L	1.4 % Relative	4,750/8 mL		12011 - 20209
31	o-xylene in methanol (TRM-S-5010)	1,000 mg/L	2.2 % Relative	4,750/8 mL		12011 - 20210
32	m-xylene in methanol (TRM-S-5011)	1,000 mg/L	1.0 % Relative	4,750/8 mL		12011 - 20211
33	p-xylene in methanol (TRM-S-5012)	1,000 mg/L	1.3% Relative	4,750/8 mL		12011 - 20212
34	Organochlorine Pesticide Mix set 1	100 mg/kg	3% relative	11,600/1.1 mL		12011 - 20213
35	Organochlorine Pesticide Mix set 2	100 mg/kg	2% relative	16,000/1.1 mL		12011-20221
36	Organophosphate Pesticide Mix set 1	100 mg/kg	5% relative	7,700/1.1 mL		12011 - 20214
37	Organophosphate Pesticide Mix set 2	100 mg/kg	3% relative	13,300/1.1 mL		12011 - 20215
38	Organophosphate Pesticide Mix set 3	100 mg/kg	4% relative	14,500/1.1 mL		12011-20219
39	Organophosphate Pesticide Mix set 4	100 mg/kg	4% relative	11,000/1.1 mL		12011-20220
40	Organophosphate Pesticide Mix set 5	100 mg/kg	3% relative	12,100/1.1 mL		12011-20225
41	Acaricide Pesticide Mix set 1	100 mg/kg	3% relative	7,000/1.1 mL		12011 - 20216
42	Acaricide Pesticide Mix set 2	100 mg/kg	2 % relative	14,000/1.1 mL		12011-20224
43	Carbamate Pesticide Mix set 1	100 mg/kg	3% relative	8,100/1.1 mL		12011 - 20217
44	Pyrethroid Pesticide Mix set 1	100 mg/kg	2 % relative	11,000/1.1 mL		12011-20218
45	Pyrethroid Pesticide Mix set 2	100 mg/kg	3 % relative	10,000/1.1 mL		12011-20222
46	Insecticide Pesticide Mix set 1	100 mg/kg	2 % relative	10,000/1.1 mL		12011-20225
47	Total malachite green in shrimp (TRM-F-5001)	18.35 µg/kg	4.00 % Relative	5,000/ bottle		12011 - 20601
48	Aflatoxins in peanut butter (TRM-F-5002)	2-10 ng/g	8-10% relative	4,500 /bottle	30 g/bottle	12011 - 20602
49	Total chlorestero in frozen human serum (TRM-C-5001)	2 .05 mg/g	6% relative	3,000 / vial		12011 - 20501
50	Clenbuterol in feed	71.9 µg/kg	5.43 % relative	2,850/bottle		12011-20901
51	Salbutamol in feed	79.5 µg/kg	14.21 % relative	2,850/bottle		12011-20902



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52	Potassium Dichromate Solution	20, 40, 60, 80 and 100 mg/kg (each set choose from the concentrations above)	0.01 A	43,000/set	Set 6 : 5 concentrations (TRM-S-2009e)	12031 - 20201
				38,000/set	Set 5 : 4 concentrations (TRM-S-2009d)	12031 - 20202
				32,800/set	Set 4 : 3 concentrations (TRM-S-2009c)	12031 - 20203
				27,700/set	Set 3 : 2 concentrations (TRM-S-2009b)	12031 - 20204
				22,600/set	Set 2 : 1 concentration (TRM-S-2009a)	12031 - 20205
53	Potassium Iodide Standard Solution (TRM-S-2010)	10 g/L	0.5 nm	20,000/set		12031 - 20206
54	Zinc standard solution (TRM-S-2011)	10,000 ppm	1%	1,250/100 ml		12031 - 20301
55	Cadmium standard solution (TRM-S-2012)	10,000 ppm	1%	1,250/100 ml		12031 - 20302
56	Chloride standard solution (TRM-S-2013)	100 ppm	1%	1,250/100 ml		12031 - 20401
57	Sodium standard solution (TRM-S-2014)	100 ppm	1%	1,250/100 ml		12031 - 20501
58	Elements in Glutinous Rice Powder (TRM-F-4001)	Cd 0.69 mg/kg	0.06 mg/kg	4,000/ bottle	30 g/bottle	12022 - 20001
		Cu 1.5 mg/kg	0.1 mg/kg			
		Mn 7.8 mg/kg	1.0 mg/kg			
		Zn 21.2 mg/kg	1.0 mg/kg			
59	Trace and Essential Elements in Prawn (TRM-F-4002)	Cd 2.05 mg/kg	0.11 mg/kg	8,800/ bottle	5 g/bottle	12022 - 20002
		Cu 49 mg/kg	2 mg/kg			
		Pb 1.8 mg/kg	0.1 mg/kg			
		Zn 81 mg/kg	4 mg/kg			
60	Elements in Acrylonitrile Butadiene Styrene (ABS) Plastic, Low Levels (TRM-M-4001)	Cd 10.1 mg/kg	0.5 mg/kg	8,700/ bottle	30 g/bottle	12022 - 20003
		Cr 21 mg/kg	1 mg/kg			
		Pb 82 mg/kg	4 mg/kg			
		Hg 102 mg/kg	7 mg/kg			
61	Elements in Soil (TRM-E-4001)	Cd 0.85 mg/kg	0.10 mg/kg	8,100/bottle	30 g/bottle	12022 - 20004
		Cu 27.7 mg/kg	2.1 mg/kg			
		Ni 43.7 mg/kg	2.8 mg/kg			
		Pb 29.5 mg/kg	1.9 mg/kg			
		Zn 69.6 mg/kg	7.8 mg/kg			



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62	Elements in Acrylonitrile Butadiene Styrene (ABS) Plastic, High Levels (TRM-M-4002)	Cd 102 mg/kg	4 mg/kg	8,700/bottle	30 g/bottle	12022-20005
		Cr 172 mg/kg	7 mg/kg			
		Pb 837 mg/kg	36 mg/kg			
		Hg 1025 mg/kg	61 mg/kg			
63	Elements in Human Serum (TRM-C-4001)	Ca 92.9 mg/kg	6.3 mg/kg	2,800/bottle	4 mL/bottle	12022-20006
		K 168 mg/kg	11 mg/kg			
		Mg 21.8 mg/kg	1.3 mg/kg			
64	Arsenic in White Rice Flour (TRM-F-4003)	Total As 100 µg/kg	7 µg/kg	2,700/bottle	25 g/bottle	12022-20007
65	Trace Elements in Drinking Water (TRM-E-4002)	Cd 0.0050 mg/kg	0.0003 mg/kg	3,500/bottle	100 mL/bottle	12022-20008
		Cu 0.504 mg/kg	0.011 mg/kg			
		Pb 0.061 mg/kg	0.004 mg/kg			
		Zn 0.632 mg/kg	0.018 mg/kg			
66	Secondary pH standard	1.08 - 1.12 pH	0.02 pH	1,850/set (5 x 100mL)	0.01 N Hydrochloric acid (TRM-S-2001)	12031 - 20107
		1.66 - 1.70 pH	0.02 pH		Tetroxalate pH standard (TRM-S-2002)	12031 - 20106
		3.99 - 4.02 pH	0.01 pH		Phthalate pH standard (TRM-S-2003)	12031 - 20101
		6.85 - 6.88 pH	0.01 pH		Phosphate pH standard (TRM-S-2004)	12031 - 20102
		6.99 - 7.03 pH	0.01 pH		Phosphate pH standard (TRM-S-2005)	12031 - 20104
		9.17 - 9.20 pH	0.01 pH		Tetraborate pH standard (TRM-S-2006)	12031 - 20103
		9.99 - 10.02 pH	0.10 pH		Carbonate pH standard (TRM-S-2007)	12031 - 20105
		11.70 - 11.74 pH	0.02 pH		Alkaline phosphate pH standard (TRM-S-2008)	12031 - 20108
67	Secondary electrolytic conductivity solution (0.1 mol/l KCl) (TRM-S-2018)	12.88 mS/cm	0.1 mS/cm	8,500/250 mL		12031 - 20601
68	Secondary electrolytic conductivity solution (0.01mol/l KCl) (TRM-S-2019)	1413 mS/cm	0.2% relative	5,600 / 250 ml		12031 - 20602



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69	Secondary electrolytic conductivity solution (0.001mol/l KCl) (TRM-S-2017)	147 mS/cm	1%relative	5,600 / 250 ml		12031 – 20603
70	pH of ethanol (TRM-S-2016)	6.0 - 8.0 pH	0.5 pH	2,500 / bottle		12031 - 20701
71	Electrolytic conductivity of ethanol	1-500 μ S/m	5% relative	7,500 / bottle		120310 - 10403
72	Oxygen in Nitrogen (1-30 cmol/mol) (TRM-E-3010)	1-30 cmol/mol	0.25-0.45% relative	29,000/refill per 1 cylinder	Cylinder volume : 9.5 Liters Filling Pressure : 100 bar	12051 - 20101
		1-30 cmol/mol	0.25-0.45% relative	49,000/ Al cylinder	Cylinder volume : 9.5 Liters Filling Pressure : 100 bar	12051 - 20102
73	Oxygen in Nitrogen (2-30 cmol/mol) (TRM-E-3011)	2-30 cmol/mol	0.50% relative	18,000/ refill per 1 cylinder	Cylinder volume : 10 Liters Filling Pressure : 100-135 bar	12051 - 20103
		2-30 cmol/mol	0.50% relative	25,000/ cylinder	Cylinder volume : 10 Liters Filling Pressure : 100-135 bar	12051 - 20104
		2-30 cmol/mol	0.50% relative	30,000/ refill per 2 cylinders	Cylinder volume : 10 Liters Filling Pressure : 100-135 bar	12051 - 20105
		2-30 cmol/mol	0.50% relative	44,000/ 2 cylinders	Cylinder volume : 10 Liters Filling Pressure : 100-135 bar	12051 - 20106
		2-30 cmol/mol	0.50% relative	36,000/ refill per 3 cylinders	Cylinder volume : 10 Liters Filling Pressure : 100-135 bar	12051 - 20107
		2-30 cmol/mol	0.50% relative	57,000/ 3 cylinders	Cylinder volume : 10 Liters Filling Pressure : 100-135 bar	12051 - 20108
74	Carbon dioxide in Nitrogen (1-15 cmol/mol) (TRM-E-3020)	1-15 cmol/mol	1.0% relative	25,500/refill per 1 cylinder	Cylinder volume : 9.5 Liters Filling Pressure : 100 bar	12051 - 20201
		1-15 cmol/mol	1.0% relative	45,500/ Al cylinder	Cylinder volume : 9.5 Liters Filling Pressure : 100 bar	12051 - 20202
75	Methane in Nitrogen (1-15 cmol/mol) (TRM-E-3030)	1-15 cmol/mol	0.35% relative	27,500/refill per 1 cylinder	Cylinder volume : 9.5 Liters Filling Pressure : 100 bar	12051 - 20301
		1-15 cmol/mol	0.35% relative	47,500/Al cylinder	Cylinder volume : 9.5 Liters Filling Pressure : 100 bar	12051 - 20302
76	Methane in Nitrogen (1-10 cmol/mol) (TRM-E-3031)	1-10 cmol/mol	0.7% relative	20,000 /refill per 1 cylinder	Cylinder volume : 10 Liters Filling Pressure : 100-135 bar	12051 - 20303
		1-10 cmol/mol	0.7% relative	27,000 / cylinder	Cylinder volume : 10 Liters Filling Pressure : 100-135 bar	12051 - 20304
77	Propane in Nitrogen (200 - 5,000 mmol/mol) (TRM-E-3061)	200-5,000 μ mol/mol	0.5% relative	27,900 /refill per 1 cylinder	Cylinder volume : 10 Liters Filling Pressure : 100 bar	12050-20601
		200-5,000 μ mol/mol	0.5% relative	37,200 /Al cylinder	Cylinder volume : 10 Liters Filling Pressure : 100 bar	12050-20602



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Analysis Fee

Chemical Metrology and Biometry

78	Malachite green in seafood by ID-LC-MS/MS	0.5 - 20 µg/kg	9.0 - 9.5 % relative	46,250/sample	Capability reference: CCQM-K85 (2010)	12011 - 60601
79	Leuco-malachite green in seafood by ID-LC-MS/MS	0.5 - 20 µg/kg	8.0 - 8.5 % relative	46,250/sample	Capability reference: CCQM-K85 (2010)	12011 - 60602
80	Total malachite green in seafood by ID-LC-MS/MS	1.0 - 40 µg/kg	6.2 - 7.0 % relative	46,250/sample	Capability reference: CCQM-K85 (2010)	12011 - 60603
81	Melamine in milk powder and dairy products by ID-LC-MS/MS	0.1 - 5.0 mg/kg	5.5 - 6.5 % relative	45,000/sample	Capability reference: CCQM-K103 (2012)	12011 - 60604
82	Chloramphenicol in food by ID-LC-MS/MS	0.1 - 10.0 µg/kg	7.0 - 8.0 % relative	40,000/sample	Capability reference: CCQM-K81 (2009)	12011 - 60605
83	Endosulfan (II) in fruits and vegetables by ID-GC/MS	100 - 1000 µg/kg	4.5 - 5.5 % relative	26,880/sample	Capability reference: CCQM-P136 (2012)	12011 - 60606
84	Endosulfan sulfate in fruits and vegetables by ID-GC/MS	100 - 1000 µg/kg	4.5 - 5.5 % relative	27,500/sample	Capability reference: CCQM-P136 (2012)	12011 - 60607
85	β-agonists in meat by ID-LC-MS/MS	1 - 50 µg/kg	5.0 - 6.0 % relative	45,400/sample	Capability reference: APMP.QM-S6 (2013)	12011 - 60608
86	Total cholesterol in frozen human serum by ID-LC-MS/MS	0.01-5.00 mg/g	5-6% relative	38,150/sample	Capability reference: CCQM-K6.2 (2013)	12011 - 60501
87	One type aflatoxin in nuts and seeds	2-10 ng/g	6-8%relative	25,000/ 1 type	type of aflatoxin: AFB1, AFB2, AFG1 and AFG2	12011 - 60609
88	Two types aflatoxin in nuts and seeds	2-10 ng/g	6-8%relative	30,000/ 2 types		12011 - 60610
89	three types aflatoxin in nuts and seeds	2-10 ng/g	6-8%relative	35,000/ 3 types		12011 - 60611
90	Four types aflatoxin in nuts and seeds	2-10 ng/g	6-8%relative	40,000/ 4 types		12011 - 60612
91	Purity assessment of aldrin	GC, purity>95% TGA inorganic residue as specification KFT, water as specification GC-HS, organic solvent as specification	As specification	48,250/sample	Capability reference: CCQM-K55.b (2010)	12011 - 60101
92	Purity assessment of L-valine	HPLC, purity>95% TGA inorganic residue as specification KFT, water as specification GC-HS, organic solvent as specification	As specification	58,130/sample	Capability reference: CCQM-K55.c (2012)	12011 - 60102



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93	Purity assessment of Avermectin	HPLC, purity>92% TGA inorganic residue as specification KFT, water as specification GC-HS, organic solvent as specification	As specification	58,300/sample	Capability reference: CCQM-K104 (2013)	12011 - 60103
94	Assigned Brix and Refractive Index value for sample	5.00 - 60.00 % Brix, 1.34026 - 1.44193 nD	0.04 % Brix, 0.00008 nD	3,880/sample		12011 - 60201
95	Glucose in human serum by ID-LC-MS/MS	0.12- 4.5 mg/g	3-4 %relative	33,000/sample	Capability reference: CCQM-K104 (2013)	12011-60502
96	Clenbuterol in feed	10-1000 µg/kg	5-6%relative	43,100/1 assigned value		12011-60901
97	Salbuterol in feed	10-1000 µg/kg	5-6% relative	43,600/2 assigned value		12011-60902
98	Arsenic (total) in plant materials by standard addition	As(total): 0.5 - 5.0 mg/kg	7.0 - 7.5 % relative	30,250/sample	Capability reference: CCQM-K89(2011)	12022 - 60101
99	Arsenic (total) in seafood by standard addition	As(total): 10 - 100 mg/kg	4.5 - 5.5 % relative	30,250 /sample	Capability reference: APMP.QM-S5(2012)	12022 - 60102
100	Arsenic (total) in cereal and cereal products by standard addition	As: 0.005 - 0.05 mg/kg	6.5 - 7.5% relative	60,207/sample	Capability reference: CCQM-K108 (2014)	12022 - 60103
101	Cadmium in plant materials by ICP-IDMS	Cd: 0.1 - 10.0 mg/kg	2.5 - 3.0 % relative	34,130 /sample	Capability reference: CCQM-K89(2011)	12022 - 60301
102	Cadmium in cereal and cereal products by ICP-IDMS	Cd: 0.1-1.0 mg/kg	3.5 - 4.0 % relative	34,130 /sample	Capability reference: APMP.QM-S3 (2008)	12022 - 60303
103	Cadmium in fresh water by ICP-IDMS	Cd: 1-5 ug/kg	4.5 - 5.0 % relative	31,380 /sample	Capability reference: SIM-QM-S2 (2010)	12022 - 60304
104	Cadmium in plastic by ICP-IDMS	Cd: 20-80 mg/kg	1.5 - 2.0 % relative	33,750 /sample	Capability reference: CCQM-P106 (2008)	12022 - 60305
105	Calcium in plant materials by ICP-IDMS	Ca: 5 - 50 mg/g	4.0 - 4.5 % relative	34,130 /sample	Capability reference: CCQM-K89(2011)	12022 - 60201
106	Calcium in cereal and cereal products by ICP-IDMS	Ca: 1000-2000 mg/kg	3.0 - 3.5 % relative	34,000 /sample	Capability reference: CCQM-K56 (2007)	12022 - 60203
107	Calcium in fresh water by ICP-IDMS	Ca: 2 - 25 mg/kg	3.0 - 3.5 % relative	31,380 /sample	Capability reference: SIM-QM-S2 (2010)	12022 - 60204
108	Chromium in plastic by ICP-IDMS	Cr: 100-400 mg/kg	2.5 - 3.0 % relative	34,000 /sample	Capability reference: CCQM-P106 (2008)	12022 - 60405
109	Copper in cereal and cereal products by ICP-IDMS	Cu: 5-20 mg/kg	2.0 - 2.5 % relative	34,380 /sample	Capability reference: CCQM-K56 (2007)	12022 - 60503
110	Copper in bio Fuel by ICP-IDMS	Cu : 0.05 - 1.00 mg/kg	3.0- 4.0 % relative	26,000 /sample	Capability reference: CCQM-K100 (2012)	12022 - 60506



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Item No.	Description	Range	Accuracy / Uncertainty	Price (THB)	Remark	Code
111	Iron in seafood by ICP-IDMS	Fe: 50 - 500 mg/kg	3.5 - 4.5 % relative	34,130 /sample	Capability reference: APMP.QM-S5 (2012)	12022 - 60602
112	Lead in plant materials by ICP-IDMS	Pb: 0.1 - 10.0 mg/kg	2.5 - 3.0 % relative	34,000 /sample	Capability reference: CCQM-K89(2011)	12022 - 61001
113	Lead in plastic by ICP-IDMS	Pb: 50-600 mg/kg	1.5 - 2.0 % relative	34,000 /sample	Capability reference: CCQM-P106 (2008)	12022 - 61005
114	Lead in fresh water by ICP-IDMS	Pb: 5-30 ug/kg	2.5 - 3.0 % relative	31,380/sample	Capability reference: SIM-QM-S2 (2010)	12022 - 61004
115	Nickel in fresh water by ICP-IDMS	Ni: 50-80 ug/kg	3.0 - 3.5 % relative	31,250 /sample	Capability reference: SIM-QM-S2 (2010)	12022 - 60904
116	Magnesium in biological fluids by ICP-IDMS	Mg: 5 - 50 mg/kg	0.5 - 1.5% relative	68,815/sample	Capability reference: CCQM-K107 (2014)	12022 - 60808
117	Potassium in biological fluids by ICP-IDMS	K: 50 - 500 mg/kg	3.5 - 4.5% relative	68,815/sample	Capability reference: CCQM-K107 (2014)	12022 - 60708
118	Zinc in plant materials by ICP-IDMS	Zn: 10 - 100 mg/kg	1.0 - 1.5 % relative	34,880 /sample	Capability reference: CCQM-K89(2011)	12022 - 61101
119	Zinc in cereal and cereal products by ICP-IDMS	Zn: 10-80 mg/kg	3.0 - 3.5 % relative	34,880 /sample	Capability reference: CCQM-K56 (2007)	12022 - 61103
120	Zinc in meat by ICP-IDMS	Zn: 70-300 mg/kg	4.5 - 5.0 % relative	34,130 /sample	Capability reference: CCQM-P85 (2006)	12022 - 61107
121	Zinc in seafood by ICP-IDMS	Zn: 10 - 100 mg/kg	4.5 - 5.5 % relative	35,000 /sample	Capability reference: APMP.QM-S5 (2012)	12022 - 61102
122	Quantification of genomic DNA fragment extracted from maize powder	As specification	As specification	3,750/sample for quality + 12,500/gene for quantity		12041 - 60101
123	Oxygen in Nitrogen	1-30 cmol/mol	0.25-0.45% relative	11,500/cylinder		12051 - 60101
124	Carbon Monoxide in Nitrogen	5-100 µmol/mol	0.50-0.84% relative	11,750/cylinder		12051 - 60401
125	Carbon Dioxide in Nitrogen	0.1-15 cmol/mol	1.0% relative	11,500/cylinder		12052 - 60201
		1-15 cmol/mol	0.5% relative	11,500/cylinder		12050 - 60202
126	Methane in Nitrogen	0.1-15 cmol/mol	0.35% relative	11,500 /Cylinder		12051 - 60301
		200-1,000 µmol/mol	0.7% relative	14,100/Cylinder		12050 - 60302
127	Sulfur Dioxide in Nitrogen	50 - 500 µmol/mol	1.2% relative	13,500 /Cylinder		12051 - 60501
		500 - 2,000 µmol/mol	0.5% relative	14,500/cylinder		12050 - 60502
128	Propane in Nitrogen	1 - 10 cmol/mol	0.4% relative	14,500/cylinder		12050 - 60601
		200 - 5,000 µmol/mol	0.5% relative	17,400/cylinder		12050 - 60602
		20 -200 µmol/mol	1.0% relative	18,000/cylinder		12050 - 60603
129	Nitrogen Monoxide in Nitrogen	1,000 - 10,000 µmol/mol	0.6% relative	14,500/cylinder		12050 - 60701