National Institute of Metrology (Thailand)
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Calibration Fee

Chemical Metrology and Biometry

Item No.	Description	TRM code	Range	Accuracy / Uncertainty	Price (THB)	Remark	Code
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
17	Assigned pH value for sample (primary method)		9.16 - 9.20 pH	0.008 pH	13,750/sample		12031-10108
18	Assigned pH value for sample (secondary method)		6.85 - 6.88 pH	0.006 pH	7,750/sample		12031 - 10109
19	Assigned pH value for sample		1 - 12 pH	0.01 pH	2,500/sample		12031-10106
20	Assigned pH value for sample (primary method)		1 - 12 pH	0.008 pH	13,750/sample		12031-10107

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21	pH meter with associated electrode		1 - 11 pH (-414.11 mV) to 414.11 mV	0.02 pH 0.06 mV	3,750/set (3 point + 500 next point)		12031-10101
22	Assigned electrolytic conductivity value for sample (secondary method)		12.88 mS/cm	0.3% relative	11,000 /sample		12031-10404
23	Assigned electrolytic conductivity value for sample (secondary method)		1413 µS/cm	0.3% relative	11,000 /sample		12031-10401
24	Assigned electrolytic conductivity value for sample (secondary method)		147 µS/cm	0.5% relative	11,000 /sample		12031-10402
25	Assigned low electrolytic conductivity value for sample (secondary method)		5-50 µS/cm	1% relative	11,000 /sample		12031-10405
26	Oxygen Analyzer		1-30 cmol/mol	0.25-0.45 %relative	11,500/item	CIPM-MRA: 3-point calibration	12051-10101
27	Oxygen Detector		1-50 cmol/mol	1.0 %relative	3,000/item	CIPM-MRA: 1-point calibration	12050-10102
28	Carbon Dioxide Analyzer		1-15 cmol/mol	1.0 %relative	11,500/item	CIPM-MRA: 3-point calibration	12051-10201
29	Carbon Dioxide Detector		0.1-15 cmol/mol	1.0 %relative	3,000/item	CIPM-MRA: 1-point calibration	12050-10202
30	Methane Analyzer		1-15 cmol/mol	0.35 %relative	11,500/item	CIPM-MRA: 3-point calibration	12051-10301
31	Methane Detector		0.01-15 cmol/mol	1.0 %relative	3,000/item	CIPM-MRA: 1-point calibration	12050-10302
32	Carbon Monoxide Analyzer		5-100 µmol/mol	0.65-0.84 %relative	11,750/item	CIPM-MRA: 3-point calibration	12051-10401
33	Carbon Monoxide Detector		0.01-15 cmol/mol	1.0 %relative	3,000/item	CIPM-MRA: 1-point calibration	12050-10402
34	Propane Detector		0.01-15 cmol/mol	1.0 %relative	3,000/item	1-point calibration	12050-10601
35	Gas Diluter (O_2, CO)		As specification	≥ 1.0 %relative	20,500/item		12050-10001

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RMs/CRMs

Chemical Metrology and Biometry

Item No.	Description	TRM code	Range	Accuracy / Uncertainty	Price (THB)	Remark	Code
36	Elements in Human Serum	TRM-C-2001	Ca 92.9 mg/kg K 168 mg/kg Mg 21.8 mg/kg	6.3 mg/kg 11 mg/kg 1.3 mg/kg	2,800/bottle	4 mL/bottle	12022-20006
37	Ethanol in Air	TRM-C-3010	100 - 200 µmol/mol	1.0 %relative	35,000/refill per 1 cylinder	Cylinder Volume: approx. 10 Liters Filling Pressure: 100 bar	12050-20901
			100 - 200 µmol/mol	1.0 %relative	45,000/Al cylinder	Cylinder Volume: approx. 10 Liters Filling Pressure: 100 bar	12050-20902
38	Total chloresterol in frozen human serum	TRM-C-5001	2 .05 mg/g	6% relative	3,000 / vial		12011-20501
39	Elements in Soil	TRM-E-2001	Cd 0.85 mg/kg Cu 27.7 mg/kg Ni 43.7 mg/kg Pb 29.5 mg/kg Zn 69.6 mg/kg	0.10 mg/kg 2.1 mg/kg 2.8 mg/kg 1.9 mg/kg 7.8 mg/kg	8,100/bottle	30 g/bottle	12022-20004
40	Trace Elements in Water	TRM-E-2002	Cd 0.0050 mg/kg Cu 0.504 mg/kg Pb 0.061 mg/kg Zn 0.632 mg/kg	0.0003 mg/kg 0.011 mg/kg 0.004 mg/kg 0.018 mg/kg	3,500/bottle	100 mL/bottle	12022-20008
41	Mercury in Water	TRM-E-2003	Hg 528 ng/kg	41 ng/kg	1,700/bottle	10 mL/bottle	12022-20009
42	Oxygen in Nitrogen	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
43	Oxygen in Nitrogen	TRM-E-3011	2-30 cmol/mol	0.5%relative	18,000/refill per 1 cylinder	Cylinder volume: 10 Liters, Filling Pressure :100-135 bar	12051-20103
			2-30 cmol/mol	0.5%relative	25,000/cylinder	Cylinder volume: 10 Liters, Filling Pressure :100-135 bar	12051-20104
			2-30 cmol/mol	0.5%relative	30,000/refill per 2 cylinders	Cylinder volume: 10 Liters, Filling Pressure :100-135 bar	12051-20105
			2-30 cmol/mol	0.5%relative	44,000/ 2 cylinders	Cylinder volume: 10 Liters, Filling Pressure :100-135 bar	12051-20106
			2-30 cmol/mol	0.5%relative	36,000/refill per 3 cylinders	Cylinder volume: 10 Liters, Filling Pressure :100-135 bar	12051-20107
			2-30 cmol/mol	0.5%relative	57,000/ 3 cylinders	Cylinder volume: 10 Liters, Filling Pressure :100-135 bar	12051-20108
44	Carbon Dioxide in Nitrogen	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
45	Carbon Dioxide in Nitrogen	TRM-E-3021	0.5-20 cmol/mol	1.0 %relative	16,900 refill per 1 cylinder	Cylinder volume: 10 Liters, Filling Pressure :100-135 bar	12050-20203
			0.5-20 cmol/mol	1.0 %relative	23,900/ cylinder	Cylinder volume: 10 Liters, Filling Pressure :100-135 bar	12052-20204
46	Methane in Nitrogen	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

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47	Methane in Nitrogen	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
48	Methane in Air	TRM-E-3032	0.5-10 cmol/mol	1.0 %relative	20,000 refill per 1 cylinder	Cylinder volume: 10 Liters, Filling Pressure :100-135 bar	12050-20305
			0.5-10 cmol/mol	1.0 %relative	27,000/ cylinder	Cylinder volume: 10 Liters, Filling Pressure :100-135 bar	12050-20306
49	Methane in Nitrogen	TRM-E-3033	100-1000 µmol/mol	1.0 %relative	23,800 refill per 1 cylinder	Cylinder volume: 10 Liters, Filling Pressure :100-135 bar	12050-20307
			100-1000 µmol/mol	1.0 %relative	33,200/ cylinder	Cylinder volume: 10 Liters, Filling Pressure :100-135 bar	12050-20308
50	Carbon Monoxide in Air	TRM-E-3040	50 - 5000 µmol/mol	1.0 %relative	24,100/refill per 1 cylinder	Cylinder Volume: approx. 10 Liters Filling Pressure: 100 bar	12050-20401
			50 - 5000 µmol/mol	1.0 %relative	34,100/Al cylinder	Cylinder Volume: approx. 10 Liters Filling Pressure: 100 bar	12050-20402
51	Sulfur Dioxide in Nitrogen	TRM-E-3050	500 - 2,000 µmol/mol	0.5% relative	23,000/refill per cylinder	Cylinder volume : 10 Liters Filling Pressure : 100 bar	12050-20501
			500 - 2,000 µmol/mol	0.5% relative	33,000/ Al cylinder	Cylinder volume : 10 Liters Filling Pressure : 100 bar	12050-20502
52	Propane in Nitrogen	TRM-E-3061	200-5,000 µmol/mol	0.5%relative	27,900/refill per 1 cylinder	Cylinder volume: 10 Liters, Filling Pressure :100 bar	12050-20601
			200-5,000 µmol/mol	0.5%relative	37,200/ Al cylinder	Cylinder volume: 10 Liters, Filling Pressure :100 bar	12050-20602
53	Propane in Nitrogen	TRM-E-3062	0.5-10 cmol/mol	1.0 %relative	20,500 refill per 1 cylinder	Cylinder volume: 10 Liters, Filling Pressure :100-135 bar	12050-20603
			0.5-10 cmol/mol	1.0 %relative	27,500/ cylinder	Cylinder volume: 10 Liters, Filling Pressure :100-135 bar	12050-20604
54	Propane in Air	TRM-E-3063	0.5-10 cmol/mol	1.0 %relative	22,400 refill per 1 cylinder	Cylinder volume: 10 Liters, Filling Pressure :100-135 bar	12050-20605
			0.5-10 cmol/mol	1.0 %relative	29,400/ cylinder	Cylinder volume: 10 Liters, Filling Pressure :100-135 bar	12050-20606
55	Nitrogen Monoxide in Nitrogen	TRM-E-3070	1,000 - 10,000 µmol/mol	1.0% relative	23,000/refill per cylinder	Cylinder volume : 10 Liters Filling Pressure : 100 bar	12050-20701
			1,000 - 10,000 µmol/mol	1.0% relative	33,000/ Al cylinder	Cylinder volume : 10 Liters Filling Pressure : 100 bar	12050-20702
56	Organochlorine Pesticides in Soil	TRM-E-5001	Endosulfan II 0.43 mg/kg Endosulfan sulfat 0.56 mg/kg	14% Relative 15% Relative	3,000/bottle		12011-20801
57	Pure pork meat	TRM-F-1001	10000 g/kg		3,500		12042-20102
58	Pure beef meat	TRM-F-1002	>998.8 g/kg		3,500		12042-20103
59	Elements in Glutinous Rice Powder	TRM-F-2001	Cd 0.69 mg/kg Cu 1.5 mg/kg Mn 7.8 mg/kg Zn 21.2 mg/kg	0.06 mg/kg 0.1 mg/kg 1.0 mg/kg 1.0 mg/kg	4,000/ bottle	30 g/bottle	12022-20001
60	Trace and Essential Elements in Prawn	TRM-F-2002	Cd 2.05 mg/kg Cu 49 mg/kg Pb 1.8 mg/kg Zn 81 mg/kg	0.11 mg/kg 2 mg/kg 0.1 mg/kg 4 mg/kg	8,800/ bottle	5 g/bottle	12022-20002

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61	Arsenic in White Rice Flour	TRM-F-2003	Total As 100 µg/kg	7 µg/kg	2,700/bottle	25 g/bottle	12022-20007
62	Total malachite green in shrimp	TRM-F-5001	18.35 µg/kg	4.00 % relative	5,000/ bottle		12011-20601
63	Aflatoxins in peanut butter	TRM-F-5002	2-10 ng/g	8-10% relative	4,500 /bottle	30 g/bottle	12011-20602
64	Clenbuterol in feed	TRM-F-5004	71.9 µg/kg	5.43 % relative	2,850/bottle		12011-20901
65	Salbutamol in feed	TRM-F-5005	79.5 µg/kg	14.21 % relative	2,850/bottle		12011-20902
66	Melamine in Milk Powder	TRM-F-5006	1.03 mg/kg	16% relative	3,000/20g bottle		12011-20604
67	Elements in Acrylonitrile Butadiene Styrene (ABS) Plastic, Low Levels	TRM-M-2001	Cd 10.1 mg/kg Cr 21 mg/kg Pb 82 mg/kg Hg 102 mg/kg	0.5 mg/kg 1 mg/kg 4 mg/kg 7 mg/kg	8,700/ bottle	30 g/bottle	12022-20003
68	Elements in Acrylonitrile Butadiene Styrene (ABS) Plastic, High Levels	TRM-M-2002	Cd 102 mg/kg Cr 172 mg/kg Pb 837 mg/kg Hg 1025 mg/kg	4 mg/kg 7 mg/kg 36 mg/kg 61 mg/kg	8,700/bottle	30 g/bottle	12022-20005
69	Sucrose Standard for Optical Measurements	TRM-S-5032	Purity 997.4 mg/g **Cell length 100 mm** Polarization at 546 nm: 99.96 (°Z) Optical rotation at 546 nm: 20.38 (degrees) Specific rotation at 546 nm: 78.34 Polarization at 589 nm: 99.95 (°Z) Optical rotation at 589 nm:17.31 (degrees) Specific rotation at 589 nm: 66.52 Cell length 200 mm Polarization at 546 nm: 99.94 (°Z) Optical rotation at 546: 40.75 (degrees) Specific rotation at 546: 99.94 Polarization at 589 nm: 99.89 (°Z) Optical rotation at 589 nm: 34.59 (degrees) Specific rotation at 589 nm: 66.47	1.1 mg/g 0.62 (°Z) 0.13 (degrees) 0.49 0.62 (°Z) 0.13 (degrees) 0.49 0.60 (°Z) 0.11 (degrees) 0.43 0.62 (°Z) 0.25 (degrees) 0.49 0.61 (°Z) 0.21 (degrees) 0.42	6,000/bag		12011-20101

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70	Pork DNA solution	TRM-S-1001	100,000 copy number/mL	6,000 copy number/mL	5,000		12042-20104
71	MON810 plasmid DNA	TRM-S-1002	1.04 copy number ratio	0.061 copy number ratio	12,500		12042-20101
72	TRM-enzyme α-amylase	TRM-S-1003	382.8-457.2	37.2	12,500		12042-20105
73	Working pH standard (Phthalate)	TRM-S-2027	3.99 - 4.02 pH	0.01 pH	1,000/1000 mL		12031-20121
74	Working pH standard (Equipmolal phosphate)	TRM-S-2028	6.85 - 6.88 pH	0.01 pH	1,000/1000 mL		12031-20122
75	Working pH standard (Tetraborate)	TRM-S-2029	9.17 - 9.20 pH	0.01 pH	1,000/1000 mL		12031-20123
76	Working pH standard (Carbonate)	TRM-S-2031	9.99 - 10.02 pH	0.10 pH	1,000/1000 mL		12031-20124
77	Working pH standard (phosphate)	TRM-S-2027	6.99 - 7.03 pH	0.01 pH	1,000/1000 mL		12031-20125
78	Working pH standard (0.01 N Hydrochloric acid)	TRM-S-2025	1.08 - 1.12 pH	0.02 pH	1,000/1000 mL		12031-20126
79	Working pH standard (Tetroxalate)	TRM-S-2026	1.66 - 1.70 pH	0.02 pH	1,000/1000 mL		12031-20127
80	Working pH standard (alkaline phosphate)	TRM-S-2032	11.70 - 11.74 pH	0.02 pH	1,000/1000 mL		12031-20128
81	Secondary pH standard (tetroxalate)	TRM-S-2002	1.66-1.70 pH	0.006 pH	8,000/set (5 x 100 mL)	Differential cell method	12032-20109
82	Secondary pH standard (tetroxalate)	TRM-S-2002s	1.66-1.70 pH	0.006 pH	1,700/100 mL	Differential cell method	12032-20110
83	Secondary pH standard (Phthalate)	TRM-S-2003	3.99 - 4.02 pH	0.006 pH	8,000/set (5 x 100 mL)	Differential cell method	12032-20101
84	Secondary pH standard (Phthalate)	TRM-S-2003s	3.99 - 4.02 pH	0.006 pH	1,700/100 mL	Differential cell method	12032-20105
85	Secondary pH standard (Equipmolal phosphate)	TRM-S-2004	6.85 - 6.88 pH	0.006 pH	8,000/set (5 x 100 mL)	Differential cell method	12032-20102
86	Secondary pH standard (Equipmolal phosphate)	TRM-S-2004s	6.85 - 6.88 pH	0.006 pH	1,700/100 mL	Differential cell method	12032-20106
87	Secondary pH standard (Phosphate)	TRM-S-2005	6.99 - 7.03 pH	0.006 pH	8,000/set (5 x 100 mL)	Differential cell method	12032-20111
88	Secondary pH standard (Phosphate)	TRM-S-2005s	6.99 - 7.03 pH	0.006 pH	1,700/100 mL	Differential cell method	12032-20112
89	Secondary pH standard (Tetraborate)	TRM-S-2006	9.17 - 9.20 pH	0.007 pH	8,000/set (5 x 100 mL)	Differential cell method	12032-20103
90	Secondary pH standard (Tetraborate)	TRM-S-2006s	9.17 - 9.20 pH	0.007 pH	1,700/100 mL	Differential cell method	12032-20107
91	Secondary pH standard (Carbonate)	TRM-S-2007	9.99 - 10.02 pH	0.006 pH	8,000/set (5 x 100 mL)	Differential cell method	12032-20104
92	Secondary pH standard (Carbonate)	TRM-S-2007s	9.99 - 10.02 pH	0.006 pH	1,700/100 mL	Differential cell method	12032-20108
93	Primary Phthalate buffer solution	TRM-S-2020	3.99 - 4.02 pH	0.005 pH	15,000/500 mL		12031-20109
94	Primary Phosphate buffer solution	TRM-S-2021	6.85 - 6.88 pH	0.005 pH	15,000/500 mL		12031-20110
95	Primary Borate buffer solution	TRM-S-2022	9.16 - 9.20 pH	0.005 pH	15,000/500 mL		12031-20111
96	Primary Carbonate buffer solution	TRM-S-2030	9.99 - 10.02	0.005 pH	15,000/500 mL		12031-20120
97	Potassium Dichromate Solution 1 concentration	TRM-S-2009a	20, 40, 60, 80 and 100 mg/kg (each set choose from the concentrations above)	0.01 A	22,600/set		12031-20205
98	Potassium Dichromate Solution 2 concentrations	TRM-S-2009b	20, 40, 60, 80 and 100 mg/kg (each set choose from the concentrations above)	0.01 A	27,700/set		12031-20204

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99	Potassium Dichromate Solution 3 concentrations	TRM-S-2009c	20, 40, 60, 80 and 100 mg/kg (each set choose from the concentrations above)	0.01 A	32,800/set		12031-20203
100	Potassium Dichromate Solution 4 concentrations	TRM-S-2009d	20, 40, 60, 80 and 100 mg/kg (each set choose from the concentrations above)	0.01 A	38,000/set		12031-20202
101	Potassium Dichromate Solution 5 concentration	TRM-S-2009e	20, 40, 60, 80 and 100 mg/kg (each set choose from the concentrations above)	0.01 A	43,000/set		12031-20201
102	Potassium Iodide Standard Solution	TRM-S-2010	10 g/L	0.5 nm	20,000/set		12031-20206
103	Zinc standard solution	TRM-S-2011	10,000 ppm	1% relative	1,250/100 ml		12031-20301
104	Cadmium standard solution	TRM-S-2012	10,000 ppm	1% relative	1,250/100 ml		12031-20302
105	Chloride standard solution	TRM-S-2013	100 ppm	1% relative	1,250/100 ml		12031-20401
106	Sodium standard solution	TRM-S-2014	100 ppm	1% relative	1,250/100 ml		12031-20501
107	Arsenic standard solution	TRM-S-2015	1000 ppm	0.2% rlative	2,000/100 ml		12031-20303
108	pH of ethanol	TRM-S-2016	6.0 - 8.0 pH	0.5 pH	2,500 / bottle		12031-20701
109	Secondary electrolytic conductivity solution (0.001mol/l KCl)	TRM-S-2017	147 µS/cm	0.5% relative	5,600 / 250 ml		12031–20603
110	Secondary electrolytic conductivity solution (0.1 mol/l KCl)	TRM-S-2018	12.88 mS/cm	0.3% relative	8,500/250 mL		12031-20601
111	Secondary electrolytic conductivity solution (0.01mol/l KCl)	TRM-S-2019	1413 µS/cm	0.3% relative	5,600 / 250 ml		12031-20602
112	electrolytic conductivity of ethanol	TRM-S-2023	0.1-1 uS/cm	5%relative	2,500/bottle	capacity 50 ml	12031-20702
113	5% Brix Sucrose Standard Solution	TRM-S-5001	5.00 % Brix, 1.34026 nD	0.01 % Brix, 0.00007 nD	3,600/15 mL		12012-20201
114	10% Brix Sucrose Standard Solution	TRM-S-5002	10.00 % Brix, 1.34782 nD	0.01 % Brix, 0.00007 nD	3,600/15 mL		12011-20202
115	20% Brix Sucrose Standard Solution	TRM-S-5003	20.00 % Brix, 1.36384 nD	0.01 % Brix, 0.00007 nD	3,600/15 mL		12011-20203
116	30% Brix Sucrose Standard Solution	TRM-S-5004	30.00 % Brix, 1.38115 nD	0.01 % Brix, 0.00007 nD	3,600/15 mL		12011-20204
117	50% Brix Sucrose Standard Solution	TRM-S-5005	50.00 % Brix, 1.42006 nD	0.01 % Brix, 0.00008 nD	3,600/15 mL		12011-20205
118	60% Brix Sucrose Standard Solution	TRM-S-5006	60.00 % Brix, 1.44190 nD	0.01 % Brix, 0.00007 nD	3,600/15 mL		12011-20206
119	Benzene in methanol	TRM-S-5007	1,000 mg/L	1.4 % relative	4,750/8 mL		12011-20207
120	Ethylbenzene in methanol	TRM-S-5008	1,000 mg/L	1.1 % relative	4,750/8 mL		12011-20208
121	Toluene in methanol	TRM-S-5009	1,000 mg/L	1.4 % relative	4,750/8 mL		12011-20209
122	o-xylene in methanol	TRM-S-5010	1,000 mg/L	2.2 % relative	4,750/8 mL		12011-20210
123	m-xylene in methanol	TRM-S-5011	1,000 mg/L	1.0 % relative	4,750/8 mL		12011-20211

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124	p-xylene in methanol	TRM-S-5012	1,000 mg/L	1.3% relative	4,750/8 mL		12011-20212
125	Organochlorine Pesticide Mix set 1	TRM-S-5013	100 mg/kg	3% relative	11,600/1.1 mL		12011-20213
126	Organophosphate Pesticide Mix set 1	TRM-S-5014	100 mg/kg	5% relative	7,700/1.1 mL		12011-20214
127	Organophosphate Pesticide Mix set 2	TRM-S-5015	100 mg/kg	3% relative	13,300/1.1 mL		12011-20215
128	Acaricide Pesticide Mix set 1	TRM-S-5016	100 mg/kg	3% relative	7,000/1.1 mL		12011-20216
129	Carbamate Pesticide Mix set 1	TRM-S-5017	100 mg/kg	3% relative	8,100/1.1 mL		12011-20217
130	Pyrethroid Pesticide Mix set 1	TRM-S-5018	100 mg/kg	2 % relative	11,000/1.1 mL		12011-20218
131	Organophosphate Pesticide Mix set 3	TRM-S-5019	100 mg/kg	4% relative	14,500/1.1 mL		12011-20219
132	Organophosphate Pesticide Mix set 4	TRM-S-5020	100 mg/kg	4% relative	11,000/1.1 mL		12011-20220
133	Organochlorine Pesticide Mix set 2	TRM-S-5021	100 mg/kg	2% relative	16,000/1.1 mL		12011-20221
134	Pyrethroid Pesticide Mix set 2	TRM-S-5022	100 mg/kg	3 % relative	10,000/1.1 mL		12011-20222
135	Organophosphate Pesticide Mix set 5	TRM-S-5023	100 mg/kg	3% relative	12,100/1.1 mL		12011-20225
136	Acaricide Pesticide Mix set 2	TRM-S-5024	100 mg/kg	2 % relative	14,000/1.1 mL		12011-20224
137	Insecticide Pesticide Mix set 1	TRM-S-5025	100 mg/kg	2 % relative	10,000/1.1 mL		12011-20225
138	0.01% Brix Sucrose Standard Solution	TRM-S-5026	0.01%	2.0% relative	3,700/ 15mL		12011-20226
139	0.02% Brix Sucrose Standard Solution	TRM-S-5027	0.02%	1.4% relative	3,700/ 15mL		12011-20227
140	0.03% Brix Sucrose Standard Solution	TRM-S-5028	0.03%	0.5% relative	3,700/ 15mL		12011-20228
141	0.04% Brix Sucrose Standard Solution	TRM-S-5029	0.04%	0.6% relative	3,700/ 15mL		12011-20229
142	0.05% Brix Sucrose Standard Solution	TRM-S-5030	0.05%	0.8% relative	3,700/ 15mL		12011-20230
143	40% Brix Sucrose Standard Solution	TRM-S-5031	40.00% Brix, 1.39986 nD	0.01 %Brix, 0.00007 nD	3,600/ 15mL		12011-20231
144	Platinum electrode for pH measurement				25,000 /piece (1,000 USD)	For differential cell and Harned cell method	12031-20801

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Analysis Fee

Chemical Metrology and Biometry

Item No.	Description	TRM code	Range	Accuracy / Uncertainty	Price (THB)	Remark	Code
145	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
146	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
147	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
148	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
149	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
150	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
151	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
152	b-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
153	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
154	Creatinine in human serum by ID-LC-MS/MS (Exact Matching)		0.1- 5.0 mg/g	3-4 % relative	39,500/Value		12011-60503
155	Clenbuterol in feed by ID-LC-MS/MS (Calibration curve)		10-1000 ng/g	8-10% relative	15,500/Value		12011-60903
156	Sulbutamol in feed by ID-LC-MS/MS (Calibration curve)		10-1000 ng/g	8-10% relative	16,000/Value		12011-60904
157	Polarization (Pol) and optical rotation (OR) of sucrose solution at 546 nm, 200 mm cell length		Pol: 0-100 °Z, OR: 0°-40°	0.3 - 0.6 °Z 1°- 3°	15,000/Value		12011-60202
158	Polarization (Pol) and optical rotation (OR) of sucrose solution at 589 nm, 200 mm cell length		Pol: 0-100 °Z, OR: 0°-34°	0.3 - 0.6 °Z 1°- 3°	15,000/Value		12011-60203
159	Ethanol in food		0.01-30 mg/g	2 - 6% relative	10,000/Value		12011-60613
160	Benz(a)anthracene (BaA) by ID-LC-MS/MS (Calibration curve)		10 - 100 ng/g	9-10 % relative	24,000/Value	Minimun serivce requirement ≥ 3 Values	12011-60614
161	Benzo(a)pyrene (BaP) by ID-LC-MS/MS (Calibration curve)		10 - 100 ng/g	9-10 % relative	22,000/Value	Minimun serivce requirement ≥ 3 Values	12011-60615
162	Malachite green in seafood by ID-LC-MS/MS (Calibration curve)		0.5 - 20 ng/g	10-11 % relative	17,500/Value		12011-60616
163	Leuco-malachite green in seafood by ID-LC-MS/MS (Calibration curve)		0.5 - 20 ng/g	10-11 % relative	16,000/Value		12011-60617
164	Total malachite green in seafood by ID-LC-MS/MS (Calibration curve)		1.0 - 40 ng/g	7.0-7.5 % relative	18,000/Value		12011-60618

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Item No.	Description	TRM code	Range	Accuracy / Uncertainty	Price (THB)	Remark	Code
165	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
	Two types aflatoxin in nuts and seeds		2-10 ng/g	6-8 %relative	30,000/ 2 types		12011-60610
	three types aflatoxin in nuts and seeds		2-10 ng/g	6-8 %relative	35,000/ 3 types		12011 -60611
	Four types aflatoxin in nuts and seeds		2-10 ng/g	6-8 %relative	40,000/ 4 types		12011-60612
166	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
167	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
168	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
169	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
170	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
171	Clenbuterol in feed		10-1000 µg/kg	5-6%relative	43,100/1 assigned value		12011-60901
172	Salbutermol in feed		10-1000 µg/kg	5-6% relative	43,600/2 assigned value		12011-60902
173	Assign value for palmitic acid in cooking oil using GC-FID (calibration curve)		1-1000 mg/g	7-8% relative	5,000/sample		12011-60621
174	Assign value for steric acid in cooking oil using GC-FID (calibration curve)		1-1000 mg/g	7-8% relative	5,000/sample		12011-60622
175	Assign value for oleic acid in cooking oil using GC-FID (calibration curve)		1-1000 mg/g	7-8% relative	5,000/sample		12011-60623
176	Assign value for linoleic acid in cooking oil using GC-FID (calibration curve)		1-1000 mg/g	7-8% relative	5,000/sample		12011-60624

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Item No.	Description	TRM code	Range	Accuracy / Uncertainty	Price (THB)	Remark	Code
177	Assign value for enrofloxacin in egg (Exact-matching ID LC-MS/MS)		10-1000 ng/g	7-8% relative	35,700/sample		12011-60625
178	Assign value for ciprofloxacin in egg (Exact-matching ID LC-MS/MS)		10-1000 ng/g	9-10% relative	35,800/sample		12011-60626
179	Assign value for polarization (Pol) and optical rotation (OR) of sucrose solution at 546 nm, 100 mm cell length		Pol: 0-100 °Z OR: 0°- 30°	0.3-0.6 °Z 1°-3°	15,000/sample		12011-60204
180	Assign value for polarization (Pol) and optical rotation (OR) of sucrose solution at 589 nm, 100 mm cell length		Pol: 0-100 °Z OR: 0°- 20°	0.3-0.6 °Z 1°-3°	15,000/sample		12011-60205
181	Assign value for enrofloxacin in meat (Exact-matching ID LC-MS/MS)		10-1,000 µg/kg	7-8 % relative	40,000/sample		12011-60619
182	Assign value for sulfadiazine in meat (Exact-matching ID LC-MS/MS)		10-3,000 µg/kg	7-8 % relative	40,000/sample		12011-60620
183	Assign value for purity of folic acid using mass balance technique		950-1000 mg/g	1.5% relative	47,000/sample	Capability reference: CCQM-K55.d (2017)	12011-60104
184	Value assignment for Aflatoxin B1 in acetonitrile by ID-LC-MS/MS		1-10 ng/g	5% relative	10,000/sample		12011-60206
185	Value assignment for Aflatoxin B1 in acetonitrile by HPLC-PDA		1-10 ng/g	10% relative	5,000/sample		12011-60207
186	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
187	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
188	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
189	Arsenic (total) in fresh water by standard addition		As(total): 0.005 - 1.000 mg/kg	3.5 - 4.0% relative	24,700 /sample		12022-60104
190	Arsenic (total) in cosmetic cream by standard addition		As(total): 1 - 10 mg/kg	4.5 - 5.0 % relative	25,100 /sample	Capability reference: CCQM-K106 (2014)	12022-60109
191	Arsenic in leather powder by GSA-ICPMS		As(total): 30-100 mg/kg	4.6 - 5.5% relative	22,900/ sample	Capability reference: CCQM-K128 (2017)	12022-60111
192	Arsenic speciation (inorganic arsenic as arsenic) in rice flour by external calibration HPLC-ICPMS		As: 0.1 - 1.00 mg/kg	4.8 - 6.0% relative	12,250/ sample	Capability reference: CCQM-K108.2014	12022-61712
193	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
194	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
195	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
196	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
197	Cadmium in cereal and cereal products by standard addition		Cd: 0.1 - 0.5 mg/kg	4.6 - 5.0% relative	24,700 /sample	Capability reference: CCQM-K108 (2014)	12022-61403
198	Cadmium in leather powder by ICP-IDMS		Cd: 30-100 mg/kg	2.4 - 3.5% relative	28,100/ sample	Capability reference: CCQM-K128 (2017)	12022-60311

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199	Cadmium in leather powder by GSA-ICPMS		Cd: 30-100 mg/kg	7.1 - 8.0% relative	22,900/ sample	Capability reference: CCQM-K128 (2017)	12022-61411
200	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
201	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
202	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
203	Chromium in fresh water by ICP-IDMS		Cr: 2 - 20 µg/kg	6.5 - 7.0% relative	28,300 /sample	Capability reference: CCQM-K124 (2016)	12022-60404
204	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
205	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
206	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
207	Copper in fresh water by ICP-IDMS		Cu: 0.05 - 20 mg/kg	3.0 - 4.0% relative	28,100 /sample		12022-60504
208	Copper in leather powder by ICP-IDMS		Cu: 30-100 mg/kg	2.7 - 3.5% relative	28,100/ sample	Capability reference: CCQM-K128 (2017)	12022-60511
209	Copper in leather powder by GSA-ICPMS		Cu: 30-100 mg/kg	4.3 - 5.0% relative	22,900/ sample	Capability reference: CCQM-K128 (2017)	12022-61811
210	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
211	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
212	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
213	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
214	Lead in cosmetic cream by ICP-IDMS		Pb: 5 - 10 mg/kg	2.5 - 3.0% relative	27,700 /sample	Capability reference: CCQM-K106 (2014)	12022-61009
215	Lead in leather powder by ICP-IDMS		Pb: 30-100 mg/kg	2.6 - 3.5% relative	27,300/ sample	Capability reference: CCQM-K128 (2017)	12022-61011
216	Lead in leather powder by GSA-ICPMS		Pb: 30-100 mg/kg	6.1 - 7.0% relative	22,900/ sample	Capability reference: CCQM-K128 (2017)	12022-62011
217	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
218	Nickel in leather powder by ICP-IDMS		Ni: 30-100 mg/kg	2.4 - 3.5% relative	27,600/ sample	Capability reference: CCQM-K128 (2017)	12022-60911
219	Nickel in leather powder by GSA-ICPMS		Ni: 30-100 mg/kg	4.6 - 5.5% relative	23,000/ sample	Capability reference: CCQM-K128 (2017)	12022-61911

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220	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
221	Mercury in fresh water by external calibration CV-AAS		Hg: 0.1 - 4.0 µg/kg	5.0 - 10.0% relative	17,250 /sample		12022-61204
222	Mercury in cosmetic cream by ICP-IDMS		Hg: 0.1 - 2 mg/kg	4.0 - 4.5% relative	28,500 /sample	Capability reference: CCQM-K106 (2014)	12022-61209
223	Mercury speciation (Methylmercury as Hg) in seafood by external calibration HPLC-ICPMS		Hg: 0.5 - 20 mg/ kg	6.0 - 10.0% relative	10,300 /sample		12022-61302
224	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
225	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
226	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
227	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
228	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
229	Zinc in fresh water by ICP-IDMS		Zn: 0.05 - 1.00 mg/kg	2.0 - 2.5% relative	28,100 /sample		12022-61104
230	Zinc in food supplement by ICP-IDMS		Zn: 1,000-20,000 mg/kg	4.0 - 5.0% relative	28,100/ sample	Capability reference: APMP.QM-S10 (2017)	12022-61110
231	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
232	Detection of the deoxyribonucleic acid (DNA) sequence of the pork using 3500 genetic analyzer				6,000/sample	for quality measurement (checking base pair)	12042-60101
233	The absolute quantification of gene event GT73/RT73 from genetically modified rapeseed by digital PCR		1.370-2.466 %copy number ratio	0.110-0.197 %copy number ratio	22,500/sample		12042-60102
234	The quantification of DP-Ø73496-4 event rapeseed powder using Real-time PCR		0.059 - 0.125 %copy number ratio	0.021-0.045 %copy number ratio	12,250/sample		12042-60103
235	Relative quantification of biomarker for Trefoil Factor 1 (TFF1) gene in breast cancer by real-time PCR		2.000-25.000 copy number ratio	0.742-9.283 copy number ratio	13,700/sample		12042-60104
236	Pork DNA solution		100,000 copy number/mL	6,000 copy number/mL	5,000		12042-20104
237	TRM-enzyme α-amylase		382.8-457.2	37.2	12,500		12042-20105
238	Absolute Quantification of peanut DNA for food allergy detection		3.04-9.21 copies/µL	0.82-1.11 copies/µL	13,000/ sample		12042-60105
239	Oxygen in Nitrogen		5-30 cmol/mol	0.25-0.45%relative	11,500/cylinder	CIPM-MRA	12051-60101
240	Carbon Dioxide in Nitrogen		1-15 cmol/mol	1.0%relative	11,500/cylinder	CIPM-MRA	12053-60201
			1-150 mmol/mol	0.5%relative	11,500/cylinder		12051-60202

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Item No.	Description	TRM code	Range	Accuracy / Uncertainty	Price (THB)	Remark	Code
241	Methane in Nitrogen		1-150 mmol/mol	0.35%relative	11,500/cylinder	CIPM-MRA	12052-60301
			200-1,000 µmol/mol	0.7%relative	14,100/cylinder		12050-60302
242	Carbon Monoxide in Nitrogen		5-100 µmol/mol	0.65-0.84%relative	11,750/cylinder	CIPM-MRA	12051-60401
			20-1000 µmol/mol	0.5 %relative	16,800/cylinder		12050-60402
			1-10 mmol/mol	0.5 %relative	18,000/cylinder		12050-60403
			1-15 cmol/mol	0.5 %relative	20,500/cylinder		12050-60404
243	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
244	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
245	Nitrogen Monoxide in Nitrogen		1-10 mmol/mol	0.6%relative	14,500/cylinder		12050-60701
			100 - 1,000 µmol/mol	1.0% relative	14,500/cylinder		12050-60702
246	Nitrous oxide in Nitrogen		500 - 10,000 µmol/mol	0.5% relative	15,600/cylinder		12050-60801
			1 - 10 cmol/mol	0.3% relative	15,600/cylinder		12050-60802
247	Carbon monoxide, Carbon dioxide in Nitrogen		1-15 cmol/mol	1.0 %relative	19,500/cylinder		12050-61001
248	Ethanol in Air		100 - 200 µmol/mol	1.0 %relative	28,000/item		12050-60901