



National Institute of Metrology (Thailand)

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

Tel. +66 2577 5100 (Please contact : Customer Service Section Ext. 3101, 3102) Fax. +66 2577 3659 E-mail : cs@nimt.or.th Website : http://www.nimt.or.th

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
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

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21	Assigned electrolytic conductivity value for sample (secondary method)	12.88 mS/cm	0.3% relative	11,000 /sample		12031-10404
22	Assigned electrolytic conductivity value for sample (secondary method)	1413 μ S/cm	0.3% relative	11,000 /sample		12031-10401
23	Assigned electrolytic conductivity value for sample (secondary method)	147 μ S/cm	0.5% relative	11,000 /sample		12031-10402
24	Assigned low electrolytic conductivity value for sample (secondary method)	5-50 μ S/cm	1% relative	11,000 /sample		12031-10405
25	Oxygen Analyzer	1-30 cmol/mol	0.25-0.45 %relative	11,500/item	CIPM-MRA: 3-point calibration	12051-10101
26	Oxygen Detector	1-50 cmol/mol	1.0 %relative	3,000/item	CIPM-MRA: 1-point calibration	12050-10102
27	Carbon Dioxide Analyzer	1-15 cmol/mol	1.0 %relative	11,500/item	CIPM-MRA: 3-point calibration	12051-10201
28	Carbon Dioxide Detector	0.1-15 cmol/mol	1.0 %relative	3,000/item	CIPM-MRA: 1-point calibration	12050-10202
29	Methane Analyzer	1-15 cmol/mol	0.35 %relative	11,500/item	CIPM-MRA: 3-point calibration	12051-10301
30	Methane Detector	0.01-15 cmol/mol	1.0 %relative	3,000/item	CIPM-MRA: 1-point calibration	12050-10302
31	Carbon Monoxide Analyzer	5-100 μ mol/mol	0.65-0.84 %relative	11,750/item	CIPM-MRA: 3-point calibration	12051-10401
32	Carbon Monoxide Detector	0.01-15 cmol/mol	1.0 %relative	3,000/item	CIPM-MRA: 1-point calibration	12050-10402
33	Propane Detector	0.01-15 cmol/mol	1.0 %relative	3,000/item	1-point calibration	12050-10601
34	Gas Diluter (O ₂ , CO)	As specification	\geq 1.0 %relative	20,500/item		12050-10001



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RMs/CRMs

Chemical Metrology and Biometry

35	0.01% Brix Sucrose Standard Solution (TRM-S-5026)	0.01%	2.0% relative	3,700/ 15mL		12011-20226
	0.02% Brix Sucrose Standard Solution (TRM-S-5027)	0.02%	1.4% relative	3,700/ 15mL		12011-20227
	0.03% Brix Sucrose Standard Solution (TRM-S-5028)	0.03%	0.5% relative	3,700/ 15mL		12011-20228
	0.04% Brix Sucrose Standard Solution (TRM-S-5029)	0.04%	0.6% relative	3,700/ 15mL		12011-20229
	0.05% Brix Sucrose Standard Solution (TRM-S-5030)	0.05%	0.8% relative	3,700/ 15mL		12011-20230
	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
	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
	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
	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
	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
	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
	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
36	Benzene in methanol (TRM-S-5007)	1,000 mg/L	1.4 % relative	4,750/8 mL		12011-20207
37	Ethylbenzene in methanol (TRM-S-5008)	1,000 mg/L	1.1 % relative	4,750/8 mL		12011-20208
38	Toluene in methanol (TRM-S-5009)	1,000 mg/L	1.4 % relative	4,750/8 mL		12011-20209
39	o-xylene in methanol (TRM-S-5010)	1,000 mg/L	2.2 % relative	4,750/8 mL		12011-20210
40	m-xylene in methanol (TRM-S-5011)	1,000 mg/L	1.0 % relative	4,750/8 mL		12011-20211
41	p-xylene in methanol (TRM-S-5012)	1,000 mg/L	1.3% relative	4,750/8 mL		12011-20212
42	Organochlorine Pesticide Mix set 1	100 mg/kg	3% relative	11,600/1.1 mL		12011-20213
43	Organochlorine Pesticide Mix set 2	100 mg/kg	2% relative	16,000/1.1 mL		12011-20221
44	Organophosphate Pesticide Mix set 1	100 mg/kg	5% relative	7,700/1.1 mL		12011-20214
45	Organophosphate Pesticide Mix set 2	100 mg/kg	3% relative	13,300/1.1 mL		12011-20215
46	Organophosphate Pesticide Mix set 3	100 mg/kg	4% relative	14,500/1.1 mL		12011-20219
47	Organophosphate Pesticide Mix set 4	100 mg/kg	4% relative	11,000/1.1 mL		12011-20220
48	Organophosphate Pesticide Mix set 5	100 mg/kg	3% relative	12,100/1.1 mL		12011-20225



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49	Acaricide Pesticide Mix set 1	100 mg/kg	3% relative	7,000/1.1 mL		12011-20216
50	Acaricide Pesticide Mix set 2	100 mg/kg	2 % relative	14,000/1.1 mL		12011-20224
51	Carbamate Pesticide Mix set 1	100 mg/kg	3% relative	8,100/1.1 mL		12011-20217
52	Pyrethroid Pesticide Mix set 1	100 mg/kg	2 % relative	11,000/1.1 mL		12011-20218
53	Pyrethroid Pesticide Mix set 2	100 mg/kg	3 % relative	10,000/1.1 mL		12011-20222
54	Insecticide Pesticide Mix set 1	100 mg/kg	2 % relative	10,000/1.1 mL		12011-20225
55	Total malachite green in shrimp (TRM-F-5001)	18.35 µg/kg	4.00 % relative	5,000/ bottle		12011-20601
56	Aflatoxins in peanut butter (TRM-F-5002)	2-10 ng/g	8-10% relative	4,500 /bottle	30 g/bottle	12011-20602
57	Total cholesterol in frozen human serum (TRM-C-5001)	2.05 mg/g	6% relative	3,000 / vial		12011-20501
58	Clenbuterol in feed	71.9 µg/kg	5.43 % relative	2,850/bottle		12011-20901
59	Salbutamol in feed	79.5 µg/kg	14.21 % relative	2,850/bottle		12011-20902
60	Melamine in Milk Powder	1.03 mg/kg	16% relative	3,000/20g bottle	TRM-F-5006	12011-20604
61	Organochlorine Pesticides in Soil	Endosulfan II 0.43 mg/kg Endosulfan sulfate 0.56 mg/kg	14% Relative 15% Relative	3,000/bottle	TRM-E-5001	12011-20801
62	Sucrose Standard for Optical Measurements	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 nm: 40.75 (degrees) Specific rotation at 546 nm: 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 0.60 (°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	TRM-P-5001	12011-20101



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63	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
64	Potassium Iodide Standard Solution (TRM-S-2010)	10 g/L	0.5 nm	20,000/set		12031-20206
65	Zinc standard solution (TRM-S-2011)	10,000 ppm	1% relative	1,250/100 ml		12031-20301
66	Cadmium standard solution (TRM-S-2012)	10,000 ppm	1% relative	1,250/100 ml		12031-20302
67	Chloride standard solution (TRM-S-2013)	100 ppm	1% relative	1,250/100 ml		12031-20401
68	Sodium standard solution (TRM-S-2014)	100 ppm	1% relative	1,250/100 ml		12031-20501
69	Arsenic standard solution (TRM-S-2015)	1000 ppm	0.2% relative	2,000/100 ml		12031-20303
70	Elements in Glutinous Rice Powder (TRM-F-2001)	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			
71	Trace and Essential Elements in Prawn (TRM-F-2002)	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			
72	Elements in Acrylonitrile Butadiene Styrene (ABS) Plastic, Low Levels (TRM-M-2001)	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			
73	Elements in Soil (TRM-E-2001)	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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74	Elements in Acrylonitrile Butadiene Styrene (ABS) Plastic, High Levels (TRM-M-2002)	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			
75	Elements in Human Serum (TRM-C-2001)	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			
76	Arsenic in White Rice Flour (TRM-F-2003)	Total As 100 µg/kg	7 µg/kg	2,700/bottle	25 g/bottle	12022-20007
77	Trace Elements in Water (TRM-E-2002)	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			
78	Mercury in Water (TRM-E-2003)	Hg 528 ng/kg	41 ng/kg	1,700/bottle	10 mL/bottle	12022-20009
79	Working 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-2027)	12031-20121
		6.85 - 6.88 pH	0.01 pH		Phosphate pH standard (TRM-S-2028)	12031-20122
		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-2029)	12031-20123
		9.99 - 10.02 pH	0.10 pH		Carbonate pH standard (TRM-S-2031)	12031-20124
		11.70 - 11.74 pH	0.02 pH		Alkaline phosphate pH standard (TRM-S-2008)	12031-20108
		1.08-1.12	0.02 pH	450/100 mL	0.01N Hydrochloric acid (TRM-S-2001s)	12031 - 20112
		1.66-1.70	0.02 pH		Tetroxalate pH standard (TRM-S-2002s)	12031 - 20113
		3.99-4.02	0.01 pH		Phthalate pH standard (TRM-S-2027s)	12031 - 20114
		6.85-6.88	0.01 pH		Phosphate pH standard (TRM-S-2028s)	12031 - 20115
		6.99-7.03	0.01 pH		Phosphate pH standard (TRM-S-2005s)	12031 - 20116
		9.17-9.20	0.01 pH		Tetraborate pH standard (TRM-S-2029s)	12031 - 20117
		9.99-10.02	0.10 pH		Carbonate pH standard (TRM-S-2031s)	12031 - 20118
		11.70-11.74	0.02 pH		Alkaline phosphate pH standard (TRM-S-2008s)	12031 - 20119



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80	Secondary pH standard	3.99-4.02	0.006 pH		Phthalate pH standard (TRM-S-2003)	12031-20101
		6.85-6.88	0.006 pH		Phosphate pH standard (TRM-S-2004)	12031-20102
		9.17-9.20	0.007 pH		Tetaborate pH standard (TRM-S-2006)	12031-20103
		9.99-10.02	0.006 pH		Carbonate pH standard (TRM-S-2007)	12031-20105
81	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
82	Secondary electrolytic conductivity solution (0.01mol/l KCl) (TRM-S-2019)	1413 μ S/cm	0.3% relative	5,600 / 250 ml		12031-20602
83	Secondary electrolytic conductivity solution (0.001mol/l KCl) (TRM-S-2017)	147 μ S/cm	0.5% relative	5,600 / 250 ml		12031-20603
84	pH of ethanol (TRM-S-2016)	6.0 - 8.0 pH	0.5 pH	2,500 / bottle		12031-20701
85	electrolytic conductivity of ethanol (TRM-S-2023)	0.1-1 uS/cm	5%relative	2,500/bottle	capacity 50 ml	12031-20702
86	(Primary) Phthalate buffer solution	3.99 - 4.02 pH	0.008 pH	15,0000/500 mL	(TRM-S-2020)	12031-20109
87	(Primary) Phosphate buffer solution	6.85 - 6.88 pH	0.005 pH	15,0000/500 mL	(TRM-S-2021)	12031-20110
88	(Primary) Borate buffer solution	9.16 - 9.20 pH	0.008 pH	15,0000/500 mL	(TRM-S-2022)	12031-20111
89	(Primary) Carbonate buffer solution	9.99 - 10.02	0.006 pH	15,0000/500 mL	(TRM-S-2030)	12031-20120
90	Platinum electrode for pH measurement			25,000 /piece (1,000 USD)	For differential cell and Harned cell method	12031-20801
91	MON810 plasmid DNA	1.04 copy number ratio	0.061 copy number ratio	12,500		12042-20101
92	Pure pork meat	10000 g/kg		3,500		12042-20102
93	Pure beef meat	>998.8 g/kg		3,500		12042-20103
94	Pork DNA solution	100,000 copy number/mL	6,000 copy number/mL	5,000		12042-20104
95	TRM-enzyme α -amylase	382.8-457.2	37.2	12,500		12042-20105



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96	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
97	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
98	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
99	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
100	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
101	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
102	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
103	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
104	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



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

Tel. +66 2577 5100 (Please contact : Customer Service Section Ext. 3101, 3102) Fax. +66 2577 3659 E-mail : cs@nimt.or.th Website : <http://www.nimt.or.th>

Item No.	Description	Range	Accuracy / Uncertainty	Price (THB)	Remark	Code
105	Propane in Nitrogen (TRM-E-3061)	200-5,000 $\mu\text{mol/mol}$	0.5%relative	27,900/refill per 1 cylinder	Cylinder volume: 10 Liters, Filling Pressure :100 bar	12050-20601
		200-5,000 $\mu\text{mol/mol}$	0.5%relative	37,200/ Al cylinder	Cylinder volume: 10 Liters, Filling Pressure :100 bar	12050-20602
106	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
107	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
108	Nitrogen Monoxide in Nitrogen (TRM-E-3070)	1,000 - 10,000 $\mu\text{mol/mol}$	1.0% relative	23,000/refill per cylinder	Cylinder volume : 10 Liters Filling Pressure : 100 bar	12050-20701
		1,000 - 10,000 $\mu\text{mol/mol}$	1.0% relative	33,000/ Al cylinder	Cylinder volume : 10 Liters Filling Pressure : 100 bar	12050-20702
109	CO in Air (TRM-C-3010)	50 - 5000 $\mu\text{mol/mol}$	1.0 %relative	24,100/refill per 1 cylinder	Cylinder Volume: approx. 10 Liters Filling Pressure: 100 bar	12050-20401
		50 - 5000 $\mu\text{mol/mol}$	1.0 %relative	34,100/Al cylinder	Cylinder Volume: approx. 10 Liters Filling Pressure: 100 bar	12050-20402
110	Ethanol in Air (TRM-C-3010)	100 - 200 $\mu\text{mol/mol}$	1.0 %relative	35,000/refill per 1 cylinder	Cylinder Volume: approx. 10 Liters Filling Pressure: 100 bar	12050-20901
		100 - 200 $\mu\text{mol/mol}$	1.0 %relative	45,000/Al cylinder	Cylinder Volume: approx. 10 Liters Filling Pressure: 100 bar	12050-20902



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

Chemical Metrology and Biometry

111	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
112	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
113	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
114	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
115	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
116	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
117	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
118	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
119	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
120	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
121	Clenbuterol in feed by ID-LC-MS/MS (Calibration curve)	10-1000 ng/g	8-10% relative	15,500/Value		12011-60903
122	Sulbutamol in feed by ID-LC-MS/MS (Calibration curve)	10-1000 ng/g	8-10% relative	16,000/Value		12011-60904
123	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
124	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
125	Ethanol in food	0.01-30 mg/g	2 - 6% relative	10,000/Value		12011-60613
126	Benz(a)anthracene (BaA) by ID-LC-MS/MS (Calibration curve)	10 - 100 ng/g	9-10 % relative	24,000/Value	Minimum service requirement ≥ 3 Values	12011-60614
127	Benzo(a)pyrene (BaP) by ID-LC-MS/MS (Calibration curve)	10 - 100 ng/g	9-10 % relative	22,000/Value	Minimum service requirement ≥ 3 Values	12011-60615
128	Malachite green in seafood by ID-LC-MS/MS (Calibration curve)	0.5 - 20 ng/g	10-11 % relative	17,500/Value		12011-60616
129	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
130	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	Range	Accuracy / Uncertainty	Price (THB)	Remark	Code
131	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
132	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
133	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
134	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
135	Assigned Brix and Refractive Index value for sample	5.00 - 60.00 % Brix,	0.04 % Brix, 0.00008 nD	3,880/sample		12011-60201
		1.34026 - 1.44193 nD				
136	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
137	Clenbuterol in feed	10-1000 µg/kg	5-6%relative	43,100/1 assigned value		12011-60901
138	Salbuterol in feed	10-1000 µg/kg	5-6% relative	43,600/2 assigned value		12011-60902
139	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
140	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
141	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
142	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
143	Assign value for enrofloxacin in egg (Exact-matching ID LC-MS/MS)	10-1000 ng/g	7-8% relative	35,700/sample		12011-60625
144	Assign value for ciprofloxacin in egg (Exact-matching ID LC-MS/MS)	10-1000 ng/g	9-10% relative	35,800/sample		12011-60626



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Item No.	Description	Range	Accuracy / Uncertainty	Price (THB)	Remark	Code
145	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
146	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
147	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
148	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
149	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
150	Value assignment for Aflatoxin B1 in acetonitrile by ID-LC-MS/MS	1-10 ng/g	5% relative	10,000/sample		12011-60206
151	Value assignment for Aflatoxin B1 in acetonitrile by HPLC-PDA	1-10 ng/g	10% relative	5,000/sample		12011-60207
152	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
153	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
154	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
155	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
156	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
157	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
158	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
159	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
160	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
161	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
162	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
163	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
164	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
165	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
166	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
167	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



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168	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
169	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
170	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
171	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
172	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
173	Copper in fresh water by ICP-IDMS	Cu: 0.05 - 20 mg/kg	3.0 - 4.0% relative	28,100 /sample		12022-60504
174	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
175	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
176	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
177	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
178	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
179	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
180	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
181	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
182	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
183	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
184	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
185	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
186	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
187	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
188	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
189	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
190	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
191	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
192	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
193	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
194	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
195	Zinc in fresh water by ICP-IDMS	Zn: 0.05 - 1.00 mg/kg	2.0 - 2.5% relative	28,100 /sample		12022-61104



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196	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
197	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
198	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
199	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
200	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
201	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
202	Pork DNA solution	100,000 copy number/mL	6,000 copy number/mL	5,000		12042-20104
203	TRM-enzyme α -amylase	382.8-457.2	37.2	12,500		12042-20105
204	Absolute Quantification of peanut DNA for food allergy detection	3.04-9.21 copies/ μ L	0.82-1.11 copies/ μ L	13,000/ sample		12042-60105
205	Oxygen in Nitrogen	5-30 cmol/mol	0.25-0.45%relative	11,500/cylinder	CIPM-MRA	12051-60101
206	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
207	Methane in Nitrogen	1-150 mmol/mol	0.35%relative	11,500/cylinder	CIPM-MRA	12052-60301
		200-1,000 μ mol/mol	0.7%relative	14,100/cylinder		12050-60302
208	Carbon Monoxide in Nitrogen	5-100 μ mol/mol	0.65-0.84%relative	11,750/cylinder	CIPM-MRA	12051-60401
		20-1000 μ mol/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
209	Sulfur Dioxide in Nitrogen	50-500 μ mol/mol	1.2%relative	13,500/cylinder		12051-60501
		500-2,000 μ mol/mol	0.5%relative	14,500/cylinder		12050-60502
210	Propane in Nitrogen	1-10 cmol/mol	0.4%relative	14,500/cylinder		12050-60601
		200-5,000 μ mol/mol	0.5%relative	17,400/cylinder		12050-60602
		20-200 μ mol/mol	1.0%relative	18,000/cylinder		12050-60603
211	Nitrogen Monoxide in Nitrogen	1-10 mmol/mol	0.6%relative	14,500/cylinder		12050-60701
		100 - 1,000 μ mol/mol	1.0% relative	14,500/cylinder		12050-60702
212	Nitrous oxide in Nitrogen	500 - 10,000 μ mol/mol	0.5% relative	15,600/cylinder		12050-60801
		1 - 10 cmol/mol	0.3% relative	15,600/cylinder		12050-60802
213	Carbon monoxide, Carbon dioxide in Nitrogen	1-15 cmol/mol	1.0 %relative	19,500/cylinder		12050-61001
214	Ethanol in Air	100 - 200 μ mol/mol	1.0 %relative	28,000/item		12050-60901