

**National Institute of Metrology (Thailand)**

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

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Item No.	Description	TRM code	Range	Accuracy / Uncertainty	Price (THB)	Remark	Code
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**Calibration Fee****Chemical Metrology and Biometry**

1	Piston pipette		0.1 µL to 10 mL	0.03 µL	4,000 three point + 500 next point		12032-10201
2	Volumetric apparatus		1 mL to 2000 mL	Class A	2,500 two point + 500 next point	volumetric flask, pipette, burette, pycnometer	12032-10203
3	recalibrate of referene material for calibration UV/VIS spectrophotometer (Photometric accuracy)		20 to 100 mg/kg	0.003 A	7,500/set	potassium dichromate solution	12032-10301
4	recalibrate of referene material for calibration UV/VIS spectrophotometer (stray light)		190 - 280 nm	0.12 nm	6,500/set		12032-10306
5	pH meter with associated electrode		1 - 12 pH (-414.11 mV) to 414.11 mV	0.01 pH 0.06 mV	4,000/set (3 point + 500 next point)		12031-10101
6	Oxygen Analyzer		0.001 -30 cmol/mol	≥ 1.0%	11,500/item	3-point calibration	12053-10101
7	Oxygen Detector		18 - 23 cmol/mol	≥ 1.0%	3,000/item	1-point calibration	12052-10102
8	Carbon Dioxide Analyzer		0.005-20 cmol/mol	≥ 1.0%	11,500/item	3-point calibration	12053-10201
9	Carbon Dioxide Detector		0.005-20 cmol/mol	≥ 1.0%	3,000/item	1-point calibration	12052-10202
10	Methane Analyzer		0.005-20 cmol/mol	≥ 1.0%	11,500/item	3-point calibration	12053-10301
11	Methane Detector		2.2 -2.5 cmol/mol	≥ 1.0%	3,000/item	1-point calibration	12052-10302
12	Carbon Monoxide Analyzer		50 - 65000 µmol/mol	≥ 1.0%	11,750/item	3-point calibration	12053-10401
13	Carbon Monoxide Detector		50 - 65000 µmol/mol	≥ 1.0%	3,000/item	1-point calibration	12052-10402
14	Sulfur Dioxide Analyzer		30 - 5,000 umol/mol	≥ 1.0%	14,500/Item	3-point calibration	12051-10501
15	Propane Detector		0.85 cmol/mol	≥ 1.0%	3,000/item	1-point calibration	12051-10601
16	Nitrogen Monoxide Analyzer		30 - 5,000 umol/mol	≥ 1.0%	14,500/Item	3-point calibration	12051-10701
17	Nitrogen Dioxide Analyzer		30 - 3,000 umol/mol	≥ 1.5%	14,500/Item	3-point calibration	12050-11701
18	Iso-butane Detector		0.75 cmol/mol	≥ 1.0%	3,000/item	1-point calibration	12051-11201
19	Multi Gas Detectors for Carbon Monoxide, Methane, Oxygen and Hydrogen Sulfide		CO: 100 µmol/mol CH <sub>4</sub> : 2.2 cmol/mol O <sub>2</sub> : 18 cmol/mol H <sub>2</sub> S: 25 µmol/mol	≥ 1.0%	6,000/item	1-point calibration	12051-11301

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20	Ammonia Detector		50 $\mu$ mol/mol	$\geq 1.0\%$	3,000/item	1-point calibration	12051-11401
21	Ozone Analyzer		0 - 1000 nmol/mol	As specification	10,500/item	4-point calibration including zero point	12050-15201
22	Ozone Transfer Standard		0 - 1,000 nmol/mol	2.3% relative	55,000/Item	EPA: multipoint calibration (min 7-point)	12050-15202

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**RMs/CRMs****Chemical Metrology and Biometry**

<b>Standard solution (Code: S)</b>							
23	Pork DNA solution	TRM-S-1001	$1.2 \times 10^5$ copies/ $\mu$ L	$1.3 \times 10^4$ copies/ $\mu$ L	5,000		12042-20104
24	MON810 plasmid DNA	TRM-S-1002	1.04 copy number ratio	0.061 copy number ratio	12,500		12042-20101
25	TRM-enzyme $\alpha$ -amylase	TRM-S-1003	382.8-457.2 U/L	37.2 U/L	12,500		12042-20105
26	Beef DNA solution	TRM-S-1004	$1.0 \times 10^5$ copies/ $\mu$ L	$1.3 \times 10^4$ copies/ $\mu$ L	5,000		12042-20107
27	Blank papaya DNA solution	TRM-S-1005	$1.8 \times 10^4$ copies/ $\mu$ L	$2.3 \times 10^3$ copies/ $\mu$ L	5,000		12042-20110
28	Roundup ready plasmid DNA	TRM -S-1006	1.09 copy number ratio	0.18 copy number ratio	12,500		12042-20114
29	Bt63-Rice plasmid DNA	TRM -S-1007	$2.3 \times 10^4$ copies/ $\mu$ L	$4.7 \times 10^3$ copies/ $\mu$ L	12,500		12042-20115
30	Papaya line 55-1 plasmid DNA	TRM -S-1008	$8.8 \times 10^5$ copies/ $\mu$ L	$1.8 \times 10^5$ copies/ $\mu$ L	12,500		12042-20116
31	Beef DNA Solution (Processed food)	TRM S-1009	$1.3 \times 10^5$ copies/ $\mu$ L	$1.4 \times 10^4$ copies/ $\mu$ L	5,000		12042-20119
32	%Pork in beef DNA solution (Processed food)	TRM S-1010	1.37% cp/cp	0.19% cp/cp	5,000		12042-20120
33	LLrice62 Rice-Plasmid DNA	TRM-S-1011	$1.2 \times 10^5$ copies/ $\mu$ L	$2.8 \times 10^4$ copies/ $\mu$ L	12,500		12042-20124
34	Pork DNA solution (processed food)	TRM-S-1012	$1 \times 10^5$ copies/ $\mu$ L	$1 \times 10^4$ copies/ $\mu$ L	5,000		12042-20125
35	ASFV in tissue homogenate	TRM-S-1013a	358 copies/ $\mu$ L	128 copies/ $\mu$ L	12,500		12042-20126
36	Set of ASFV in tissue homogenate	TRM-S-1013b	5-1500 copies/ $\mu$ L	N/A	12,500/set		12042-20127
37	MON89788 plasmid DNA	TRM -S-1014	$2.5 \times 10^5$ copies/ $\mu$ L	$4.7 \times 10^4$ copies/ $\mu$ L	12,500		12042-20128
38	Goat DNA Solution	TRM -S-1016	$8.8 \times 10^4$ copies/ $\mu$ L	$1.4 \times 10^4$ copies/ $\mu$ L	5,000		12042-20129
39	LLrice601 Rice-Plasmid DNA	TRM -S-1017	$1.2 \times 10^5$ copies/ $\mu$ L	$2.6 \times 10^4$ copies/ $\mu$ L	12,500		12042-20130
40	Chicken DNA Solution	TRM-S-1015	$2.5 \times 10^5$ copies/ $\mu$ L	$3.1 \times 10^4$ copies/ $\mu$ L	5,000		12042-20134

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41	Papaya Huanong1 Plasmid DNA	TRM-S-1018	$1.9 \times 10^5$ copies/ $\mu$ L	$2.0 \times 10^4$ copies/ $\mu$ L	12,500		12042-20135
42	CaMV35S Plasmid DNA	TRM S-1019	$1.2 \times 10^4$ copies/ $\mu$ L	$1.8 \times 10^3$ copies/ $\mu$ L	12,500		12042-20136
43	Sheep DNA solution	TRM S-1020	$1.1 \times 10^5$ copies/ $\mu$ L	$1.7 \times 10^4$ copies/ $\mu$ L	5,000		12042-20141
44	Fish DNA Solution	TRM S-1021	$1.9 \times 10^5 \mu\text{L}^{-1}$	$3.3 \times 10^4 \mu\text{L}^{-1}$	5,000		12042-20143
45	Crocodile DNA solution	TRM S-1022	$1.2 \times 10^5 \mu\text{L}^{-1}$	$2.1 \times 10^4 \mu\text{L}^{-1}$	5,000		12042-20145
46	p72-ASFV plasmid DNA	TRM S-1023	$1.6 \times 10^5 \mu\text{L}^{-1}$	$3.9 \times 10^4 \mu\text{L}^{-1}$	12,500		12042-20148
47	Secondary pH standard (tetroxalate)	TRM-S-2002	1.66-1.70 pH	0.006 pH	8,000/set	Differential cell method (5 x 100 mL)	12032-20109
48	Secondary pH standard (tetroxalate)	TRM-S-2002s	1.66-1.70 pH	0.006 pH	1,700/bottle	Differential cell method 100 mL/bottle	12032-20110
49	Secondary pH standard (Phthalate)	TRM-S-2003	3.990 - 4.020 pH	0.006 pH	8,000/set	Differential cell method (5 x 100 mL)	12032-20101
50	Secondary pH standard (Phthalate)	TRM-S-2003s	3.990 - 4.020 pH	0.006 pH	1,700/bottle	Differential cell method 100 mL/bottle	12032-20105
51	Secondary pH standard (Equipmolal phosphate)	TRM-S-2004	6.850 - 6.880 pH	0.006 pH	8,000/set	Differential cell method (5 x 100 mL)	12032-20102
52	Secondary pH standard (Equipmolal phosphate)	TRM-S-2004s	6.850 - 6.880 pH	0.006 pH	1,700/bottle	Differential cell method 100 mL/bottle	12032-20106
53	Secondary pH standard (Tetraborate)	TRM-S-2006	9.17 - 9.20 pH	0.007 pH	8,000/set	Differential cell method (5 x 100 mL)	12032-20103
54	Secondary pH standard (Tetraborate)	TRM-S-2006s	9.17 - 9.20 pH	0.007 pH	1,700/bottle	Differential cell method 100 mL/bottle	12032-20107
55	Secondary pH standard (Carbonate)	TRM-S-2007	9.99 - 10.02 pH	0.006 pH	8,000/set	Differential cell method (5 x 100 mL)	12032-20104
56	Secondary pH standard (Carbonate)	TRM-S-2007s	9.99 - 10.02 pH	0.006 pH	1,700/bottle	Differential cell method 100 mL/bottle	12032-20108
57	Primary Phthalate buffer solution	TRM-S-2020	3.990 - 4.020 pH	0.005 pH	15,000/bottle	500 mL/bottle	12031-20109
58	Primary Phosphate buffer solution	TRM-S-2021	6.85 - 6.88 pH	0.005 pH	15,000/bottle	500 mL/bottle	12031-20110
59	Primary Borate buffer solution	TRM-S-2022	9.16 - 9.20 pH	0.005 pH	15,000/bottle	500 mL/bottle	12031-20111
60	Working pH standard (Phthalate)	TRM-S-2027	3.99 - 4.02 pH	0.01 pH	1,000/bottle	500 mL/bottle	12031-20121
61	Working pH standard (Equipmolal phosphate)	TRM-S-2028	6.85 - 6.88 pH	0.01 pH	1,000/bottle	500 mL/bottle	12031-20122

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62	Working pH standard (Tetraborate)	TRM-S-2029	9.17 - 9.20 pH	0.01 pH	1,000/bottle	500 mL/bottle	12031-20123
63	Primary Carbonate buffer solution	TRM-S-2030	9.990 - 10.020 pH	0.006 pH	15,000/bottle	500 mL/bottle	12031-20120
64	Working pH standard (Carbonate)	TRM-S-2031	9.99 - 10.02 pH	0.01 pH	1,000/bottle	500 mL/bottle	12031-20124
65	Working pH standard (0.01 N Hydrochloric acid)	TRM-S-2032	1.08 - 1.12 pH	0.02 pH	1,000/bottle	500 mL/bottle	12031-20126
66	Working pH standard (Tetroxalate)	TRM-S-2033	1.66 - 1.70 pH	0.01 pH	1,000/bottle	500 mL/bottle	12031-20127
67	Working pH standard (phosphate)	TRM-S-2034	6.99 - 7.03 pH	0.01 pH	1,000/bottle	500 mL/bottle	12031-20125
68	Working pH standard (alkaline phosphate)	TRM-S-2035	11.70 - 11.74 pH	0.01 pH	1,000/bottle	500 mL/bottle	12031-20128
69	Potassium Dichromate Solution 1 concentration	TRM-S-2009a	20, 40, 60, 80 and 100 mg/kg (each set choose from the	0.01 A	22,600/set		12031-20205
70	Potassium Dichromate Solution 2 concentrations	TRM-S-2009b	20, 40, 60, 80 and 100 mg/kg (each set choose from the	0.01 A	27,700/set		12031-20204
71	Potassium Dichromate Solution 3 concentrations	TRM-S-2009c	20, 40, 60, 80 and 100 mg/kg (each set choose from the	0.01 A	32,800/set		12031-20203
72	Potassium Dichromate Solution 4 concentrations	TRM-S-2009d	20, 40, 60, 80 and 100 mg/kg (each set choose from the	0.01 A	38,000/set		12031-20202
73	Potassium Dichromate Solution 5 concentration	TRM-S-2009e	20, 40, 60, 80 and 100 mg/kg (each set choose from the	0.01 A	43,000/set		12031-20201
74	Potassium Iodide Standard Solution	TRM-S-2010	10 g/L	0.5 nm	20,000/set		12031-20206
75	Zinc standard solution	TRM-S-2011	10,000 ppm	1% relative	1,250/bottle	100 mL/bottle	12031-20301
76	Cadmium standard solution	TRM-S-2012	10,000 ppm	1% relative	1,250/bottle	100 mL/bottle	12031-20302
77	Chloride standard solution	TRM-S-2013	100 ppm	1% relative	1,250/bottle	100 mL/bottle	12031-20401
78	Sodium standard solution	TRM-S-2014	100 ppm	1% relative	1,250/bottle	100 mL/bottle	12031-20501
79	Arsenic standard solution	TRM-S-2015	1000 ppm	0.2% relative	2,000/bottle	100 mL/bottle	12031-20303
80	pH of ethanol	TRM-S-2016	6.0 - 8.0 pH	0.5 pH	2,500/bottle		12031-20701
81	electrolytic conductivity of ethanol	TRM-S-2023	0.1-1 uS/cm	5%relative	2,500/bottle	50 mL/bottle	12031-20702
82	Water content in Ethanol	TRM-S-2039	0.1 - 1.0 mg/g	5% relative	3,000/set	5 ampoule/set	12031-20703



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83	Secondary electrolytic conductivity solution (0.1 mol/l KCl)	TRM-S-2018	12.88 mS/cm	0.5% relative	5,000/bottle	250 mL/bottle	12031-20601
84	Secondary electrolytic conductivity solution (0.01mol/l KCl)	TRM-S-2019	1413 $\mu$ S/cm	0.5% relative	5,000/bottle	250 mL/bottle	12031-20602
85	Secondary electrolytic conductivity solution (0.001mol/l KCl)	TRM-S-2017	147 $\mu$ S/cm	0.8% relative	5,000/bottle	250 mL/bottle	12031-20603
86	Secondary electrolytic conductivity solution (Nominal 84 $\mu$ S/cm)	TRM-S-2036	84 $\mu$ S/cm	1% relative	5,000/set	set of 2 x 125 mL bottle	12031-20604
87	Secondary electrolytic conductivity standard solution (nominal 50 $\mu$ S/cm)	TRM-S-2042	50 $\mu$ S/cm	1% relative	5,000/set	set of 2 x 125 mL bottle	12031-20605
88	Secondary electrolytic conductivity solution (nominal 25 $\mu$ S/cm)	TRM-S-2043	25 $\mu$ S/cm	1% relative	5,000/set	set of 2 x 125 mL bottle	12031-20608
89	Secondary electrolytic conductivity solution (nominal 10 $\mu$ S/cm)	TRM-S-2048	10 $\mu$ S/cm	2.2 % relative	2,500/bottle	125 mL/bottle	12031-20612
90	Secondary electrolytic conductivity solution (1 mol/L KCl)	TRM-S-2049	111.3 mS/cm	0.5 %relative	5,000/bottle	250 mL/bottle	12031-20613
91	Working electrolytic conductivity standard solution (1 mol/L KCl)	TRM-S-2053	111.3 mS/cm	0.7% relative	3,000/bottle	250 mL/bottle	12031-20616
92	Working electrolytic conductivity solution (0.1 mol/l KCl)	TRM-S-2040	12.88 mS/cm	1.5 %relative	3,000/bottle	250 mL/bottle	12031-20606
93	Working electrolytic conductivity solution (0.01 mol/l KCl)	TRM-S-2041	1413 $\mu$ S/cm	1.5 %relative	3,000/bottle	250 mL/bottle	12031-20607
94	working electrolytic conductivity standard solution (0.001 mol/l KCl)	TRM-S-2044	147 $\mu$ S/cm	1.5% relative	2,500/bottle	250 mL/bottle	12031-20609
95	working electrolytic conductivity standard solution (Nominal 84 $\mu$ S/cm)	TRM-S-2045	84 $\mu$ S/cm	2% relative	2,500/bottle	250 mL/bottle	12031-20610
96	Working electrolytic conductivity standard solution (Nominal 50 $\mu$ S/cm)	TRM-S-2046	50 $\mu$ S/cm	2% relative	2,500/bottle	250 mL/bottle	12031-20611
97	Working electrolytic conductivity standard solution (nominal 25 $\mu$ S/cm)	TRM-S-2050	25 $\mu$ S/cm	2% relative	2,500/bottle	250 mL/bottle	12031-20614
98	Secondary electrolytic conductivity solution (Nominal 5 $\mu$ S/cm)	TRM-S-2052	5 $\mu$ S/cm	2.5% relative	2,500/bottle	125 mL/bottle	12031-20615
99	Working electrolytic conductivity standard solution (Nominal 10 $\mu$ S/cm )	TRM-S-2054	10 $\mu$ S/cm	5% relative	1,300/bottle	125 mL/bottle	12031-20617
100	Secondary electrolytic conductivity and salinity solution	TRM-S-2056	(34-36) PSU (52-24) mS/cm	0.40% 0.40%	2,000/bottle	100 mL/bottle	12031-20617
101	Nitrate standard solution	TRM-S-2037	100 mg/kg	1% relative	1,500/bottle	125 mL/bottle	12031-20402
102	Fluoride standard solution	TRM-S-2038	1000 mg/kg	1% relative	1,500/bottle	125 mL/bottle	12031-20403
103	sulfate standard solution	TRM-S-2047	1000 mg/kg	3%relative	1,250/bottle	100 mL/bottle	12031-20404

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104	Bromide standard solution	TRM-S-2051	900-1,200 mg/kg	5% relative	1,250/bottle	125 mL/bottle	12031-20405
105	Magnesium standard solution	TRM-S-2055	900-1,200 mg/kg	3% relative	1,250/bottle	125 mL/bottle	12031-20502
106	Calcium standard solution	TRM-S-2057	900-1,200 mg/kg	4%relative	1,250/bottle	100 mL/bottle	12031-20503
107	5% Brix Sucrose Standard Solution	TRM-S-5001	5.00 % Brix, 1.34026 nD	0.01 % Brix, 0.00007 nD	3,600/bottle	15 mL/bottle	12012-20201
108	10% Brix Sucrose Standard Solution	TRM-S-5002	10.00 % Brix, 1.34782 nD	0.01 % Brix, 0.00007 nD	3,600/bottle	15 mL/bottle	12011-20202
109	20% Brix Sucrose Standard Solution	TRM-S-5003	20.00 % Brix, 1.36384 nD	0.01 % Brix, 0.00007 nD	3,600/bottle	15 mL/bottle	12011-20203
110	30% Brix Sucrose Standard Solution	TRM-S-5004	30.00 % Brix, 1.38115 nD	0.01 % Brix, 0.00007 nD	3,600/bottle	15 mL/bottle	12011-20204
111	40% Brix Sucrose Standard Solution	TRM-S-5031	40.00% Brix, 1.39986 nD	0.01 %Brix, 0.00007 nD	3,600/bottle	15 mL/bottle	12011-20231
112	50% Brix Sucrose Standard Solution	TRM-S-5005	50.00 % Brix, 1.42006 nD	0.01 % Brix, 0.00008 nD	3,600/bottle	15 mL/bottle	12011-20205
113	60% Brix Sucrose Standard Solution	TRM-S-5006	60.00 % Brix, 1.44190 nD	0.01 % Brix, 0.00007 nD	3,600/bottle	15 mL/bottle	12011-20206
114	Benzene in methanol	TRM-S-5007	1,000 mg/L	1.4 % relative	4,750/bottle	8 mL/bottle	12011-20207
115	Ethylbenzene in methanol	TRM-S-5008	1,000 mg/L	1.1 % relative	4,750/bottle	8 mL/bottle	12011-20208
116	Toluene in methanol	TRM-S-5009	1,000 mg/L	1.4 % relative	4,750/bottle	8 mL/bottle	12011-20209
117	o-xylene in methanol	TRM-S-5010	1,000 mg/L	2.2 % relative	4,750/bottle	8 mL/bottle	12011-20210
118	m-xylene in methanol	TRM-S-5011	1,000 mg/L	1.0 % relative	4,750/bottle	8 mL/bottle	12011-20211
119	p-xylene in methanol	TRM-S-5012	1,000 mg/L	1.3% relative	4,750/bottle	8 mL/bottle	12011-20212
120	Organochlorine Pesticide Mix set 1	TRM-S-5013	100 mg/kg	3% relative	11,600/ampoule	1.1 mL/ampoule	12011-20213
121	Organophosphate Pesticide Mix set 1	TRM-S-5014	100 mg/kg	5% relative	7,700/ampoule	1.1 mL/ampoule	12011-20214
122	Organophosphate Pesticide Mix set 2	TRM-S-5015	100 mg/kg	3% relative	13,300/ampoule	1.1 mL/ampoule	12011-20215
123	Acaricide Pesticide Mix set 1	TRM-S-5016	100 mg/kg	3% relative	7,000/ampoule	1.1 mL/ampoule	12011-20216
124	Carbamate Pesticide Mix set 1	TRM-S-5017	100 mg/kg	3% relative	8,100/ampoule	1.1 mL/ampoule	12011-20217

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Item No.	Description	TRM code	Range	Accuracy / Uncertainty	Price (THB)	Remark	Code
125	Pyrethroid Pesticide Mix set 1	TRM-S-5018	100 mg/kg	2 % relative	11,000/ampoule	1.1 mL/ampoule	12011-20218
126	Organophosphate Pesticide Mix set 3	TRM-S-5019	100 mg/kg	4% relative	14,500/ampoule	1.1 mL/ampoule	12011-20219
127	Organophosphate Pesticide Mix set 4	TRM-S-5020	100 mg/kg	4% relative	11,000/ampoule	1.1 mL/ampoule	12011-20220
128	Organochlorine Pesticide Mix set 2	TRM-S-5021	100 mg/kg	2% relative	16,000/ampoule	1.1 mL/ampoule	12011-20221
129	Pyrethroid Pesticide Mix set 2	TRM-S-5022	100 mg/kg	3 % relative	10,000/ampoule	1.1 mL/ampoule	12011-20222
130	Organophosphate Pesticide Mix set 5	TRM-S-5023	100 mg/kg	3% relative	12,100/ampoule	1.1 mL/ampoule	12011-20223
131	Acaricide Pesticide Mix set 2	TRM-S-5024	100 mg/kg	2 % relative	14,000/ampoule	1.1 mL/ampoule	12011-20224
132	0.01% Brix Sucrose Standard Solution	TRM-S-5026	0.01%	2.0% relative	3,700/bottle	15 mL/bottle	12011-20226
133	0.02% Brix Sucrose Standard Solution	TRM-S-5027	0.02%	1.4% relative	3,700/bottle	15 mL/bottle	12011-20227
134	0.03% Brix Sucrose Standard Solution	TRM-S-5028	0.03%	0.5% relative	3,700/bottle	15 mL/bottle	12011-20228
135	0.04% Brix Sucrose Standard Solution	TRM-S-5029	0.04%	0.6% relative	3,700/bottle	15 mL/bottle	12011-20229
136	0.05% Brix Sucrose Standard Solution	TRM-S-5030	0.05%	0.8% relative	3,700/bottle	15 mL/bottle	12011-20230
138	Ethanol-Water Standard Solution (45 mg%)	TRM-S-5033	0.58 mg/g	3% relative	1,000/bottle		12011-20233
139	Ethanol-Water Standard Solution (55 mg%)	TRM-S-5034	0.71 mg/g	3% relative	1,000/bottle		12011-20234
140	Ethanol-Water Standard Solution (100 mg%)	TRM-S-5035	1.3 mg/g	2% relative	1,000/bottle		12011-20235



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145	Sodium Chloride Standard Solution	TRM-S-5040A, TRM-S-5040B, TRM-S-5040C	0.30 g/100g, 5.84 g/100 g, 12.50 g/100 g	2% relative	1,500/bottle		12011-20240
146	High purity pinostrobin standard	TRM-S-5041	999.5 mg/g	1% relative	10,000/bottle	50 mg	12011-20241
147	Pesticide Standard Solution (Custom-made)	TRM-S-5042	100mg/kg	2.5% relative	10,000-60,000/set	5 ampoules x1mL	12011-20242
148	Sucrose Standard Solution (Custom-made)	TRM-S-5043	5-60% brix	0.01% brix	3,700/bottle	15 mL/bottle	12011-20243
149	Ethanol standard	TRM-S-5044	939.9 mg/g	0.6 % relative	2,000/ampoule	5 mL/ampoule	12011-20244
150	Impurities in ethanol	TRM-S-5045	water content: 59.81 mg/g	1% relative	800/bottle	150 mL/bottle	12011-20245
			Acetaldehyde diethylacetal: 3.2 ug/g	28 % relative			
			Acetaldehyde: 5.4	26% relative			
			Benzene: 2.2 ug/g	5% relative			
			Methanol: 200 ug/g	6.5% relative			
151	BTEX mixture in Methanol	TRM-S-5046	Benzene: 977 ug/g	6% relative	8,000/ ampoule		12011-20246
			Toluene: 988 ug/g	6% relative			
			Ethylbenzene: 1031 ug/g	5% relative			
			<i>o</i> -xylene: 1003 ug/g	5% relative			
			<i>m</i> -xylene: 1003 ug/g	5% relative			
			<i>p</i> -xylene: 996 ug/g	5% relative			
152	Ethanol standard solution (95%ABV)	TRM-S-5049a	Density (in air) at 20 °C (kg/m3) = 809.01, Alcoholic Strength (% ABV) = 95.60	0.25 (0.03% relative), 0.07 (0.07% relative)	2,000/bottle	15 mL	12011-20249
153	Ethanol standard solution (70%ABV)	TRM-S-5049b	Density (in air) at 20 °C (kg/m3) = 885.32, Alcoholic Strength (% ABV) = 70.08	0.29 (0.03% relative), 0.05 (0.07% relative)	2,000/bottle	15 mL	12011-20250
154	Ethanol standard solution (40%ABV)	TRM-S-5049c	Density (in air) at 20 °C (kg/m3) = 948.01, Alcoholic Strength (% ABV) = 40.04	0.33 (0.03% relative), 0.16 (0.4% relative)	2,000/bottle	15 mL	12011-20251
155	Ethanol standard solution (15%ABV)	TRM-S-5049d	Density (in air) at 20 °C (kg/m3) = 978.94, Alcoholic Strength (% ABV) = 15.03	0.28 (0.03% relative), 0.02 (0.13% relative)	2,000/bottle	15 mL	12011-20252



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156	High purity andrographolide standard	TRM-S-5047	994.0 mg/g	1% relative	5,000/bottle	50 mg	12011-20247
157	High purity panduratin A standard	TRM-S-5048	991.8 mg/g	1% relative	20,000/bottle	10 mg	12011-20248
158	High purity mitragynine standard	TRM-S-5051	920.7 mg/g	1 %relative	10,000/bottle	10 mg	12011-20255
159	High purity [6]-gingerol standard	TRM-S-5052	980.4 mg/g	1 %relative	5,000/bottle	25 mg	12011-20256
160	High purity alpha-mangostin standard	TRM-S-5050	972.8 mg/g	1 %relative	15,000/bottle	50 mg	12011-20254
161	Caffeine standard solution for other customer/ made to order	TRM-S-5054	0.5 mg/mL-200 mg/mL	3-6 %relative	5,000/set	1 set = 8 ampoule (1 mL/ampoule)	12011-20258
162	High purity terpinen-4-ol standard	TRM-S-5055	987.0 mg/g	7.6%relative	5,000/bottle	50 mg	12011-20259
163	High purity curcumin standard	TRM-S-5056	993.1 mg/g	3.5% relative	5,000/bottle	50 mg	12011-20260
164	High purity demethoxycurcumin standard	TRM-S-5057	982.8 mg/g	3.5% relative	5,000/bottle	20 mg	12011-20261
165	Sodium Bromide Standard Solution(Density)	TRM-S-5059	600 to 1700 mg/g	0.01-1.0%	2,000/ampoule	15 mL/ampoule	12011-20263
166	Platinum electrode for pH measurement					For differential cell and Harned cell method	12031-20801
<b>Food (Code: F)</b>							
167	Pure pork meat	TRM-F-1001	1000 g/kg	N/A	3,500		12042-20102
168	Pure beef meat	TRM-F-1002	>998.8 g/kg	N/A	3,500		12042-20103
169	Blank soybean GTS 40-3-2 matrix	TRM-F-1003	<0.2 g/kg	N/A	3,500		12042-20106
170	1% Pork in beef matrix	TRM-F-1004	10 g/kg	2.20 g/kg	3,500		12042-20108
171	10% Pork in beef matrix	TRM-F-1005	100 g/kg	11 g/kg	3,500		12042-20109
172	Blank meatball matrix	TRM-F-1006	1 000g/kg	N/A	3,500		12042-20111
173	0.1% Pork in beef matrix	TRM-F-1007	1 g/kg	0.33 g/kg	3,500		12042-20112
174	1% beef in feed matrix	TRM-F-1008	10 g/kg	0.1 g/kg	3,500		12042-20113
175	1 % Pork in meatball matrix	TRM -F-1009	10.1 g/kg	1.1 g/kg	3,500		12042-20118
176	0.1% (w/w) beef in feed	TRM -F-1010	1 g/kg	0.15 g/kg	3,500		12042-20117



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177	Pure pork meat (processed food)	TRM -F-1011	1,000 g/kg	N/A	3,500		12042-20121
178	Pure Beef meat (processed food)	TRM-F-1012	1,000 g/kg	N/A	3,500		12042-20122
179	1% (w/w) pork in beef matrix (process food)	TRM-F-1013	10g/kg	2g/kg	3,500		12042-20123
180	7% (w/w) pork in beef matrix (process food)	TRM-F-1014	70g/kg	5g/kg	3,500		12042-20124
181	Pure chicken meat	TRM F-1015	1,000 g/kg	N/A	3,500		12042-20131
182	Pure Goat meat	TRM F-1016	1,000 g/kg	N/A	3,500		12042-20132
183	Curcuminoids in turmeric powder: Curcumin DMC BDMC	TRM F-1017	30.2 mg/g 11.8 mg/g 11.6 mg/g	6.4 mg/g 0.6 mg/g 2.0 mg/g	4,000		12042-20133
184	Pure sheep meat	TRM F-1018	1,000 g/kg	N/A	3,500		12042-20137
185	0.1% (w/w) Pork in plant based	TRM F-1020	1 g/kg	0.05 g/kg	3500		12042-20138
186	0.1% (w/w) Beef in plant based	TRM F-1021	1 g/kg	0.06 g/kg	3500		12042-20139
187	0.1% (w/w) Chicken in plant based	TRM F-1022	1 g/kg	0.06 g/kg	3,500		12042-20140
188	Pure fish meat	TRM F-1023	1,000 g/kg	N/A	3,500		12042-20146
189	Pure crocodile meat	TRM F-1024	1,000 g/kg	N/A	3,500		12042-20144
190	0.1% (w/w) Goat in plant based	TRM F-1025	1 g/kg	0.07 g/kg	3,500		12042-20147
191	Trace and Essential Elements in Prawn ปริมาณธาตุในกุ้ง	TRM-F-2002	see certificate โปรดดูรายละเอียดในตัวอย่างใบ Certificate		2,000/ bottle	5 g/bottle	12022-20002
192	Elements and Arsenic Species in White Rice Flour	TRM-F-2003	see certificate โปรดดูรายละเอียดในตัวอย่างใบ Certificate		4,000/bottle	25 g/bottle	12023-20007
193	Elements, AB and MeHg in Tuna Tissue	TRM-F-2004	see certificate โปรดดูรายละเอียดในตัวอย่างใบ Certificate		5,000/bottle	20 g/bottle	12022-20010
194	Elements in Drinking Water	TRM-F-2005	see certificate โปรดดูรายละเอียดในตัวอย่างใบ Certificate		5,500/bottle	100 ml/bottle	12022-20011
195	Elements in Green Chiretta ( <i>Andrographis Paniculata</i> ) Powder	TRM-F-2006	see certificate โปรดดูรายละเอียดในตัวอย่างใบ Certificate		6,000/bottle	25 g/bottle	12022-20012

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196	Elements in Turmeric powder	TRM-F-2007	see certificate โปรดดูรายละเอียดในตัวอย่างใบ Certificate		6,000/bottle	30 g/bottle	12022-20014
197	Elements in Animal Feed	TRM-F-2008	see certificate โปรดดูรายละเอียดในตัวอย่างใบ Certificate		3,000/bottle	10 g/bottle	12022-20016
200	Melamine in cracker	TRM-F-5003	1.56 mg/kg	9% relative	3,000/bottle		12011-20603
203	Melamine in Milk Powder	TRM-F-5006	1.03 mg/kg	16% relative	3,000/bottle	20 g/bottle	12011-20604
204	Fatty Acid in Cooking Oil	TRM-F-5007	Palmitic acid 106 mg/g, 11.4% Stearic acid 33 mg/g, 4.1% Oleic acid 231 mg/g, 25.7% Linoleic acid 493 mg/g, 53.4% Linolenic acid 46 mg/g, 5.3%	7-10% relative	6,000/bottle		12011-20605
206	Aflatoxin in rice flour	TRM-F-5009	AFB1: 11.5 ng/g AFB2: 8.7 ng/g AFG1: 7.5 ng/g AFG2: 3.0 ng/g	AFB1: 1.5 ng/g AFB2: 0.8 ng/g AFG1: 1.0 ng/g AFG2: 0.4 ng/g	4,500/pouch	80 g/pouch	12011-20609
207	Chloramphenicol in freeze dried prawn	TRM-F-5010	0.74 ng/g	12% relative	4,000/bottle		1211-20610
208	Andrographolide in green chiretta	TRM-F-5011	18.7 mg/g	7% relative	4,000/bottle		12011-20611
209	THC and CBD in hemp oil standard (CRM)	TRM-F-5014	THC: 1.47 mg/g CBD: 53 mg/g	THC:30 %relative CBD: 17 %relative	8,000/bottle	5 ml	12011-20614
<b>Environment (Code: E)</b>							
210	Trace Elements in Water ปริมาณธาตุในน้ำ	TRM-E-2002	see certificate โปรดดูรายละเอียดในตัวอย่างใบ Certificate		2,000/bottle	100 mL/bottle	12022-20008
211	Mercury in Water ปริมาณปรอทในน้ำ	TRM-E-2003	see certificate โปรดดูรายละเอียดในตัวอย่างใบ Certificate		1,700/bottle	10 mL/bottle	12022-20009



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212	Chloride in Ethanol	TRM-E-2004	1.51 mg/kg	6% relative	1,800/bottle	250 mL/bottle	12031-20704
213	pH in wastewater	TRM-E-2005	pH 6.50-7.50	0.04pH	300/bottle	100 mL/bottle	12031-20129
214	Electrolytic conductivity of wastewater	TRM-E-2006	(1480 - 1520) $\mu$ S/cm	1.5% Relative	400/bottle	100 ml/bottle	12031-20616
215	Oxygen in Nitrogen	TRM-E-3010	5-30 cmol/mol	0.25 %relative	29,000/refill per 1 cylinder	Cylinder volume: 10 Liters, Filling Pressure :100-120 bar CGA Valve: 580	12051-20101
216	Oxygen in Nitrogen	TRM-E-3011	5-30 cmol/mol	0.5 %relative	18,000/refill per 1 cylinder	Cylinder volume: 10 Liters, Filling Pressure :100-120 bar CGA Valve: 580	12051-20103
217	Oxygen in Nitrogen	TRM-E-3012	100 $\mu$ mol/mol -5 cmol/mol	1.0 %relative	25,400/refill per 1 cylinder	Cylinder volume: 10 Liters, Filling Pressure :100-120 bar CGA Valve: 580	12050-20109
218	Oxygen in Nitrogen	TRM-E-3013	10 - 100 $\mu$ mol/mol	2.0 %relative	25,400/refill per 1 cylinder	Cylinder volume: 10 Liters, Filling Pressure :100-120 bar CGA Valve: 580	12051-20111
219	Carbon Dioxide in Nitrogen	TRM-E-3020	0.005-20 cmol/mol	0.5 %relative	30,000 refill per 1 cylinder	Cylinder volume: 10 Liters, Filling Pressure :100-120 bar CGA Valve: 580	12050-20201
220	Carbon Dioxide in Nitrogen	TRM-E-3021	0.005-20 cmol/mol	1.0 %relative	20,000 refill per 1 cylinder	Cylinder volume: 10 Liters, Filling Pressure :100-120 bar CGA Valve: 580	12052-20203
221	Methane in Nitrogen	TRM-E-3030	0.005-50 cmol/mol	0.5%relative	30,000 refill per 1 cylinder	Cylinder volume: 10 Liters, Filling Pressure :100-120 bar CGA Valve: 580	12052-20301
222	Methane in Nitrogen	TRM-E-3031	0.005-50 cmol/mol	1.0%relative	20,000 refill per 1 cylinder	Cylinder volume: 10 Liters, Filling Pressure :100-120 bar CGA Valve: 580	12052-20303
223	Methane in Air	TRM-E-3032	0.05-2.5 cmol/mol	1.0 %relative	24,100/refill per 1 cylinder	Cylinder volume: 10 Liters, Filling Pressure :100-120 bar CGA Valve: 580	12050-20305
224	Carbon Monoxide in Air	TRM-E-3040	50 - 65000 $\mu$ mol/mol	1.0 %relative	24,100/refill per 1 cylinder	Cylinder volume: 10 Liters, Filling Pressure :100-120 bar CGA Valve: 580	12050-20401
225	Carbon Monoxide in Nitrogen	TRM-E-3041	5 - 200 000 $\mu$ mol/mol	1.0 - 2.0 %relative	20,000/refill per 1 cylinder	Cylinder Volume: approx. 10 Liters Filling Pressure: 100-120 bar CGA Valve: 580	12050-20403



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226	Sulfur Dioxide in Nitrogen	TRM-E-3050	30 -5 000 µmol/mol	1.0% relative	31,000/refill per cylinder	Cylinder volume: 10 Liters, Filling Pressure :100-120 bar CGA Valve: 660	12051-20501
227	Propane in Nitrogen	TRM-E-3060	0.001- 1 cmol/mol	0.7% relative	31,000/refill per 1 cylinder	Cylinder volume: 10 Liters, Filling Pressure :100-120 bar CGA Valve: 580	12051-20601
228	Propane in Nitrogen	TRM-E-3061	0.001- 1 cmol/mol	1.0 %relative	20,500 refill per 1 cylinder	Cylinder volume: 10 Liters, Filling Pressure :100-120 bar CGA Valve: 580	12051-20603
229	Propane in Air	TRM-E-3062	0.5-1 cmol/mol	1.0 %relative	24,100/refill per 1 cylinder	Cylinder volume: 10 Liters, Filling Pressure :100-120 bar CGA Valve: 580	12050-20605
230	Nitrogen Monoxide in Nitrogen	TRM-E-3070	30 - 5,000 µmol/mol	1.0% relative	31,000/refill per cylinder	Cylinder volume: 10 Liters, Filling Pressure :100-120 bar CGA Valve: 660	12051-20701
231	Nitrogen monoxide in Nitrogen	TRM-E-3071	10 -30 µmol/mol	2.0% relative	31,000/refill per 1 cylinder	Cylinder volume : 10 Liters Filling Pressure : 100 bar CGA Valve: 660	12050-20702
232	Nitrous oxide in Nitrogen	TRM-E-3081	0.1 - 500 µmol/mol	5.0% relative	29,000/refill per 1 cylinder	Cylinder volume : 10 Liters Filling Pressure : 100 bar CGA Valve: 580	12050-20801
233	Oxygen, Carbon monoxide, Methane and Hydrogen sulfide in Nitrogen	TRM-E-3100	O <sub>2</sub> : 18 cmol/mol CH <sub>4</sub> : 2.2 cmol/mol CO: 100 µmol/mol H <sub>2</sub> S: 25 µmol/mol	1.0 %relative for O <sub>2</sub> , CH <sub>4</sub> , CO 5.0 %relative for H <sub>2</sub> S	35,000/refill per 1 cylinder	Cylinder Volume: approx. 10 Liters Filling Pressure: 100-120 bar CGA Valve: 660	12050-21000
234	Oxygen, Carbon monoxide and Methane in Nitrogen	TRM-E-3101	O <sub>2</sub> : 18 cmol/mol CH <sub>4</sub> : 2.2-2.5 cmol/mol CO: 100 µmol/mol	1.0 %relative	30,000/refill per 1 cylinder	Cylinder volume: 10 Liters, Filling Pressure :100-120 bar CGA Valve: 580	12050-21001
235	Hydrogen Sulfide in Nitrogen	TRM-E-3110	20 - 100 µmol/mol	4% relative	27,400/refill per 1 cylinder	Cylinder volume: 10 Liters, Filling Pressure :100-120 bar CGA Valve: 660	12051-21101
236	Iso-butane in Air	TRM-E-3120	0.1- 1 cmol/mol	1% relative	24,500/refill per 1 cylinder	Cylinder volume: 10 Liters, Filling Pressure :100-120 bar CGA Valve: 580	12050-21201
237	Carbon dioxide and Methane in Nitrogen	TRM-E-3134	CO <sub>2</sub> : 200 - 1,000 µmol/mol CH <sub>4</sub> : 2 - 10 µmol/mol	2.0% relative 4.0% relative	29,000/refill per 1 cylinder	Cylinder volume : 10 Liters Filling Pressure : 100 bar CGA Valve: 580	12050-21301
238	Ammonia in Nitrogen	TRM-E-3140	20-100 µmol/mol	4.0 %relative	27,400/refill per 1 cylinder	Cylinder Volume: approx. 10 Liters Filling Pressure: 100-120 bar CGA Valve: 660	12051-21401

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239	Hydrogen in Nitrogen	TRM-E-3150	10 - 800,000 $\mu\text{mol/mol}$	1.0% relative	20,000/refill per 1 cylinder	Cylinder volume : 10 Liters Filling Pressure : 100 bar CGA Valve: 580	12050-21501
240	Hydrogen in Helium	TRM-E-3151	100 - 800,000 $\mu\text{mol/mol}$	1.0% relative	25,000/refill per 1 cylinder	Cylinder volume : 10 Liters Filling Pressure : 100 bar CGA Valve: 580	12050-21502
241	Nitrogen Dioxide in Nitrogen	TRM-E-3170	30 - 3,000 $\mu\text{mol/mol}$	2.0% relative	31,000/refill per cylinder	Cylinder Volume: approx. 10 Liters Filling Pressure: 100-120 bar CGA Valve: 660	12051-21701
242	Carbon Dioxide in Argon	TRM-E-3022	100 - 500,000 $\mu\text{mol/mol}$	1.0 %relative	20,000/ cylinder	Cylinder volume: 10 Liters, Filling Pressure :100 bar CGA Valve: 580	12050-20205
243	Hydrogen in Helium	TRM-E-3151	100 - 20,000 $\mu\text{mol/mol}$	1.0% relative	25,000/ cylinder	Cylinder volume: 10 Liters, Filling Pressure :100 bar CGA Valve: 580	12050-21502
244	Methane, Nitrogen in Hydrogen	TRM-E-3230	500 - 500,000 $\mu\text{mol/mol}$	1.0% relative	27,000/ cylinder	Cylinder volume: 10 Liters, Filling Pressure :100 bar CGA Valve: 580	12050-22301
245	Isobutylene in Air	TRM-E-3180	100 $\mu\text{mol/mol}$	1.0 %relative	24,500/refill per 1 cylinder	Cylinder Volume: approx. 10 Liters Filling Pressure: 100-120 bar CGA Valve: 580	12050-21801
246	Carbon Dioxide, Oxygen in Nitrogen	TRM-E-3190	1 - 50 $\text{cmol/mol}$	1.0 %relative	28,000/refill per 1 cylinder	Cylinder Volume: approx. 10 Liters Filling Pressure: Depend on composition CGA Valve: 580	12050-21901
247	Water in Nitrogen	TRM-E-3240	10 $\mu\text{mol/mol}$	10% relative	36,000/refill per 1 cylinder	Cylinder volume : 30 Liters Filling Pressure : 100 bar CGA Valve: 580	12050-22401
248	Helium in Argon	TRM-E-3250	1 - 80 $\text{cmol/mol}$	1.0% relative	25,400/refill per 1 cylinder	Cylinder volume : 10 Liters Filling Pressure : 100 bar CGA Valve: 580	12050-22501
249	Carbon monoxide Carbon dioxide and Methane in Argon	TRM-E-3251	CO : 3 - 10 $\mu\text{mol/mol}$ CO <sub>2</sub> : 3 - 10 $\mu\text{mol/mol}$ CH <sub>4</sub> : 3 - 10 $\mu\text{mol/mol}$	5.0% relative	56,500/refill per 1 cylinder	Cylinder volume : 30 Liters Filling Pressure : 100 bar CGA Valve: 580	12050-22502
250	Hydrogen, Nitrogen and Methane in Helium	TRM-E-3270	10 - 100 $\mu\text{mol/mol}$	1.0% relative	33,000/refill per 1 cylinder	Cylinder volume : 10 Liters Filling Pressure : 100 bar CGA Valve: 580	12050-22701



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Item No.	Description	TRM code	Range	Accuracy / Uncertainty	Price (THB)	Remark	Code
251	Benzene Chloroform Dichloromethane Trichloroethylene Tetrachloroethylene 1,2-Dichloroethane 1,2-Dichloropropane 1,3-Butadiene Vinyl chloride Balance : Nitrogen	TRM-E-3280	0.90-1.00 µmol/mol	5.0% relative  7.0% relative for Vinyl chloride, 1,3-Butadiene	140,000/refill per 1 cylinder	Cylinder volume : 10 Liters Filling Pressure : 100 bar CGA Valve: 580	12050-22801
<b>Material (Code: M)</b>							
253	Elements in Acrylonitrile Butadiene Styrene (ABS) Plastic, Low Levels ปริมาณธาตุระดับต่ำในพลาสติกชนิด ABS	TRM-M-2001	see certificate โปรดดูรายละเอียดในตัวอย่างไม่แนบ Certificate		5,000/bottle	30 g/bottle	12022-20003
254	Elements in 10-mL Digesting Solution from Cotton Swab	TRM-M-2003	see certificate โปรดดูรายละเอียดในตัวอย่างไม่แนบ Certificate		4,000/package	10 cotton swabs/ package	12022-20013
255	Toxic Elements in Cosmetic cream containing hemp-derived ingredients	TRM-M-2005	see certificate โปรดดูรายละเอียดในตัวอย่างไม่แนบ Certificate		2,500/bottle	5 g/bottle	12022-20018
256	% Fiber in Sugar Cane	TRM-M-5001	11.62 %MC	0.60 % MC	5,000/pack	50 g/pack	12011-20901
<b>Clinical (Code: C)</b>							
257	Elements in Human Serum ปริมาณธาตุในซีรัม	TRM-C-2001	see certificate โปรดดูรายละเอียดในตัวอย่างไม่แนบ Certificate		1,000/bottle	4 mL/bottle	12022-20006
258	Electrolytes in human serum	TRM-C-2002	Na: 3,197.99 mg/kg K: 151.97 mg/kg Ca: 89.21 mg/kg Cl: 3,718.96 mg/kg	(2 - 3)% relative	2,800/bottle	4 mL/bottle	12022-20017
259	Ethanol in Air	TRM-C-3090	50 - 200 µmol/mol	1.0 %relative	35,000/refill per 1 cylinder	Cylinder volume: 10 Liters, Filling Pressure :100-110 bar CGA Valve: 580	12050-20901
260	Oxygen in Nitrogen	TRM-C-3014	30 - 100 cmol/mol	0.5 %relative	23,000/refill per 1 cylinder	Cylinder Volume: approx. 10 Liters Filling Pressure: 100-120 bar CGA Valve: 580	12051-20104
261	Carbon dioxide, Nitrous oxide and Oxygen in Nitrogen	TRM-C-3200	CO <sub>2</sub> : 5 cmol/mol N <sub>2</sub> O: 30 cmol/mol O <sub>2</sub> : 40 cmol/mol	1.0 %relative 1.0 %relative 1.0 %relative	25,500/refill per 1 cylinder	Cylinder Volume: approx. 10 Liters Filling Pressure: approx 50 bar CGA Valve: 580	12050-22001



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Item No.	Description	TRM code	Range	Accuracy / Uncertainty	Price (THB)	Remark	Code
262	Isoflurane, Carbon dioxide, Nitrous oxide and Oxygen in Nitrogen	TRM-C-3201	Isoflurane: 0.5 - 2 cmol/mol CO <sub>2</sub> : 5 cmol/mol N <sub>2</sub> O: 30 cmol/mol O <sub>2</sub> : 40 cmol/mol	1.0% relative 1.0% relative 1.0% relative 1.0% relative	25,500/refill per 1 cylinder	Cylinder Volume: approx. 10 Liters Filling Pressure: Depend on composition (6-25 bar), CGA Valve: 580	12050-22002
263	Sevoflurane, Carbon dioxide, Nitrous oxide and Oxygen in Nitrogen	TRM-C-3202	Sevoflurane : 0.5-2 cmol/mol CO <sub>2</sub> : 5 cmol/mol N <sub>2</sub> O : 30 cmol/mol O <sub>2</sub> : 40 cmol/mol	1.0% relative 1.0% relative 1.0% relative 1.0% relative	25,500/refill per 1 cylinder	Cylinder Volume: approx. 10 Liters Filling Pressure: Depend on composition (6-20 bar), CGA Valve: 580	12050-22003
264	Isoflurane in Nitrogen	TRM-C-3210	0.5 - 2 cmol/mol	1.0 %relative	13,400/refill per 1 cylinder	Cylinder Volume: approx. 10 Liters Filling Pressure: Depend on composition (6-25 bar), CGA Valve: 580	12050-22101
265	Sevoflurane in Nitrogen	TRM-C-3220	Sevoflurane : 0.5-2 cmol/mol	1.0% relative	15,000/refill per 1 cylinder	Cylinder Volume: approx. 10 Liters Filling Pressure: Depend on composition (6-20 bar), CGA Valve: 580	12050-22201
266	Glucose in frozen human serum	TRM-C-5002	see certificate โปรดดูรายละเอียดในตัวอยางใบ Certificate		5,000/set	3 levels, 1mL/vial	12011-20502
<b>Chemical (Code: CM)</b>							
267	65% Nitric acid, suprapure grade, 500 ml	NIMT-CM-001a	-	-	3,500/ bottle	500 ml / bottle	12031-20803
268	65% Nitric acid, suprapure grade, 1000 ml	NIMT-CM-001b	-	-	6,000/bottle	1,000 ml / bottle	12031-20804
269	Tune solution for iCAP	NIMT-CM-002	1 ng/g	-	5,000/bottle	500 ml / bottle	12031-20805

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Item No.	Description	TRM code	Range	Accuracy / Uncertainty	Price (THB)	Remark	Code
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**Analysis Fee****Chemical Metrology and Biometry**

270	Determination of organic compounds in biological fluid by IDMS		ug/g - mg/g	3-20% relative	10,000 - 15,000/sample	1. Determination of glucose by IFCC reference method 2. Determination of peptide by amino acid hydrolysis 3. lipoprotein	12012-60501
271	Determination of organic compounds in food and feed by IDMS		ng/g - µg/g	0.1 - 15 %relative	10,000-20,000/sample	1. Determination of Ametryn, Atrazine, and Pendimethalin in fruit and vegetable 2. Determination of Metalaxyl, Thiabendazole, Prochloraz, Tebuconazole, Difenconazole and Azoxystrobin in fruit and vegetable 3. metronidazole 4. dimetridazole 5. amino acids	12012-60601
272	Determination of organic compounds in food and feed by calibration curve		ng/g - µg/g		10,000 /analyte + 5,000 for next analyte	1. Determination of nitrosamines in food 2. Determination of B vitamins in food 3. Determination of Ametryn, Atrazine, and Pendimethalin in fruit and vegetable 4. Determination of Metalaxyl, Thiabendazole, Prochloraz, Tebuconazole, Difenconazole and Azoxystrobin in fruit and vegetable	12012-60602



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Item No.	Description	TRM code	Range	Accuracy / Uncertainty	Price (THB)	Remark	Code
273	Determination of purity of organic compounds (Mass balance method)		as specification	as specification	10,000-19,000.00/sample	1. Purity assessment of ethanol 2. Purity assessment of mitragynine 3. Purity assessment of 6-gingerol 4. Purity assessment of mangostin 5. Purity assessment of curcumin 6. Purity assessment of demethoxycurcumin 7. Purity assessment of bisdemethoxycurcumin 8. AP3 9. Compound D 10. Terpinen-4-ol	12012-60101
274	Determination of purity of organic compounds (specified technique)		as specification	as specification	2,000-10,000.00/sample	1. Thermo-physical properties by DSC	12012-60102
275	Determination of organic compounds in botanical products		ng/g-mg/g	5-20% relative	5,000-15,000/sample	This service includes; 1. Determination of Gamma-oryzanol in rice 2. Determination of anthocyanins in color rice 3. Determination of active ingredient in herb 4. ochratoxin 5. pesticides 6. mitragynine 7. phenolic compounds	12012-60901
276	Determination of Brix and refractive indices in food and beverages by refractometer		5 - 60 %Brix 1.34026 - 1.44193 nD	0.04 %Brix 0.00008 nD	1,500/sample		12012-60201
277	Determination of polarization in food and beverages by polarimeter		0 - 100 °Z 0 - 40 OR	0.3 - 0.6 °Z 1 - 3 OR	11,000/sample		12012-60202
278	Determination of Aflatoxins in solution by LC		ng/g - mg/g	3 - 10 %relative	6,000/analyte +3,000 for next analyte		12012-60203
279	Determination of sodium chloride by refractometry		0-25 g/100g	1.72 % relative	6,000/sample	calibration curve	12012-60204
280	Determination of organic compounds in environment		ng/g - µg/g	3-15% relative	10,000-20,000/sample	1. Determination of BTEX in water	12011-60210
281	Determination of amylose in rice by size exclusion chromatography (SEC) technique		0-30%	as specification	6,000/sample		12012-60302

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Item No.	Description	TRM code	Range	Accuracy / Uncertainty	Price (THB)	Remark	Code
282	Determination of amylose in rice by Iodine binding assay using a plate reader		0-30%	as specification	6,000/sample		12012-60303
283	Determination of dietary supplement adulteration in food		100-1000 ng/g	7-8 % relative	18,000/sample	Exact-matching IDMS	12012-60304
284	Assigned pH value for sample (primary method)		1 - 12 pH	0.003 pH	13,750/sample		12033-60107
285	Assigned pH value for sample (secondary method)		1 - 12 pH	0.004 pH	13,000/sample		12033 - 60109
286	Assigned pH value for sample (working method)		1 - 12 pH	0.01 pH	2,500/sample		12033-60106
287	Assigned electrolytic conductivity value for sample (secondary method)		5 $\mu$ S/cm - 12.88 mS/cm	0.3% - 1% relative	11,000 /sample		12033-60404
288	Assigned electrolytic conductivity value for sample (commercial cell)		84 - 12880 $\mu$ S/cm	0.8% - 1.3% relative	2,500/sample		12033-60406
289	Determination of cation and anion in sample (ion chromatography)		as specification	%1 - 2%relative	7,000/sample		12033-60103
290	Determination of substances in sample (Electrochemical method (cyclic voltammetry))		(5 - 100 )mg/kg	3 % relative	3,000/sample	1. nitrite 2. NaCl	12031-60103
291	Measurement of acidity in ethanol		(5 - 100 )mg/kg	3 % relative	3,000/sample		12031-60401
292	Determination of Elements in sample by ID-ICP/MS		0.0001-30000 mg/kg	0.3-7.5%relative	20,000 for first element + 3,000 for next element		12023-60101
293	Determination of Elements in sample by gravimetric standard addition		0.0004-300000 mg/kg	1.5-18 %relative	17,500 for first element + 3,000 for next element		12023-60102
294	Determination of Elements in sample by external calibration		0.000002 - 300000 mg/kg	1.0-16%relative	10,000 for first element + 3,000 for next element		12023-60103
295	Determination of Elemental speciation in sample		0.02 - 3200 mg/kg	3.5-10%relative	17,500 for first species + 3,000 for next species		12023-60104
296	Determination of particle number concentration by Sp-ICPMS		(0.5-2.0)*E11 particles/g	13.2 -18%relative	15,000/sample		12023-60105
297	Determination of lead isotope ratio in fresh water by single collector ICP-MS		2.5-50 ng/g	0.03 - 0.5% relative	20,000/sample		12023-60106
298	Catalytic activity concentration of enzyme by microplate reader		U/L	U/L	6,000/sample		12043-60101



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Item No.	Description	TRM code	Range	Accuracy / Uncertainty	Price (THB)	Remark	Code
299	Qualification/quantification of DNA concentration in Foodstuffs/Feed/Biomarkers by droplet digital Polymerase Chain Reaction (ddPCR)		detection or not detection/ copy number or ratio		12,500/sample	LOQ - LLRice 62: 8.41±1.11 copies/μL - SPS: 8.49± 1.30copies/μL - LLRice601: 7.77±1.21 copies/μL - SPS: 7.51± 0.99copies/μL - chicken DNA: 4.49 ± 0.96 cp/μL - ASFV: 1.89 ± 0.55 cp/μL - HIV-1 RNA: 145-757 copies/μL <b>LOD</b> - meat DNA: 5.0 μL <sup>-1</sup> - horse DNA: 5.0 μL <sup>-1</sup> - crocodile DNA: 5.0 μL <sup>-1</sup> - fish DNA: 2 μL <sup>-1</sup> - p72-ASFV LOD <sub>average</sub> 4.8 μL <sup>-1</sup> LOQ <sub>average</sub> 12 μL <sup>-1</sup>	12043-60102
300	DNA Quantification in Foodstuffs and feed by quantitative real-time PCR (qPCR)		copy number or ratio		8,500/sample		12043-60103
301	DNA Qualification in Foodstuffs/Feed/Biomarkers quantitative by real-time PCR (qPCR)		detection or not detection		5,000/sample	- The detection of Mycoplasma arginini DNA - The detection of Mycoplasma fermentans DNA - Detection of chicken DNA - EPSPS gene for GMOs screening - Detection of fish DNA - Detection of horse DNA - Detection of crocodile DNA - Detection of goat DNA	12043-60104
302	Identification of biomolecules by MALDI-TOF MS		Quality measurement	Quality measurement	2,000/sample	- protein profiling for identification of fish - protein profiling for identification of goat	12043-60105
303	qualification of protein in Foodstuffs and feed by LC Q-TOF MS		detection or not detection		3,500/sample		12043-60106
304	Confocal Laser Scanning Microscopes ZEISS LSM880		Cell imaging	Cell imaging	2,500/hr		12043-60107
305	Nanoparticle size measurement in solution		10 - 1000 nm		2,000/sample		12043-60108



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Item No.	Description	TRM code	Range	Accuracy / Uncertainty	Price (THB)	Remark	Code
306	Identification and quantification of organic compounds in herb by GC-MS and HPLC		Quality measurement / Quantity measurement	Quality measurement / Quantity measurement	2,000/sample	Quantification of terpinen-4-ol in Plai extract using GC/MS - range 5-100 ug/g - uncertainty 7-8% relative Quantification of curcumin MS in turmeric extract using HPLC-DAD - range 4-300 ug/g - uncertainty 7-8% relative	12043-60109
307	Detection of Foodstuffs/Feed/Biomarkers using loop-mediated isothermal amplification		detection or not detection		2,750/sample		12043-60110
308	Oxygen in Nitrogen		5-30 cmol/mol	0.25%relative	23,000/cylinder	Cylinder Volume: approx. 10 Liters	12051-60101
			0.01 -5 cmol/mol	0.7%relative	30,500/cylinder	Cylinder Volume: approx. 10 Liters	12050-60102
			10-100 µmol/mol	1.2%relative	30,500/cylinder	Cylinder Volume: approx. 10 Liters	12050-60103
309	Carbon Dioxide in Nitrogen		0.05-20 cmol/mol	0.5%relative	24,000/cylinder	Cylinder Volume: approx. 10 Liters	12054-60201
310	Methane in Nitrogen		0.05-50 cmol/mol	0.5%relative	24,000/cylinder	Cylinder Volume: approx. 10 Liters	12053-60301
311	Carbon Monoxide in Nitrogen		5-100 µmol/mol	1.0%relative	24,000/cylinder	Cylinder Volume: approx. 10 Liters	12052-60401
			0.005 - 20 cmol/mol	0.5%relative	24,000/cylinder	Cylinder Volume: approx. 10 Liters	12051-60402
312	Sulfur Dioxide in Nitrogen		100 -5 000 µmol/mol	0.7%relative	27,600/cylinder	Cylinder Volume: approx. 10 Liters	12051-60501
313	Sulfur Dioxide in Nitrogen		30 - 100 µmol/mol	1.2% relative	27,600/cylinder	Cylinder Volume: approx. 10 Liters	12051-60502
314	Propane in Nitrogen		0.001- 1 cmol/mol	0.7%relative	24,000/cylinder	Cylinder Volume: approx. 10 Liters	12051-60601
315	Nitrogen Monoxide in Nitrogen		10 -5,000 µmol/mol	(0.5-0.7)% relative	27,600/cylinder	Cylinder Volume: approx. 10 Liters	12051-60701
316	Nitrous Oxide in Nitrogen		0.05-10 cmol/mol	0.7%relative	27,600/cylinder	Cylinder Volume: approx. 10 Liters	12051-60801
317	Carbon monoxide, Carbon dioxide in Nitrogen		1-15 cmol/mol	0.5%relative	28,800/cylinder	Cylinder Volume: approx. 10 Liters	12051-61001
318	Hydrogen Sulfide in Nitrogen		25 - 100 µmol/mol	2.5% relative	30,600/cylinder	Cylinder Volume: approx. 10 Liters	12051-61101
319	Carbon monoxide, Methane, Carbon dioxide in Nitrogen		10 - 1,000 µmol/mol	≥0.5 %relative	34,000/cylinder	Cylinder Volume: approx. 10 Liters. In the same concentration	12050-61301
320	Ammonia in Nitrogen		20-100 µmol/mol	≥2.5 %relative	30,600/ cylinder	Cylinder Volume: approx. 10 Liters	12050-61401



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321	Hydrogen in Nitrogen		100 - 20 000 µmol/mol	≥0.5 %relative	30,500/cylinder	Cylinder Volume: approx. 10 Liters	12050-61501
322	Nitrogen Dioxide in Nitrogen		30 - 3 000 umol/mol	≥2.0 %relative	27,600/cylinder	Cylinder Volume: approx. 10 Liters	12050-61701
323	Particulate Matter as PM <sub>2.5</sub> , PM <sub>10</sub> (Analysis)		0 - 500 µg/m <sup>3</sup>	As air volume specification (≥2.0 %relative)	2,700/3 filter samples-47mm	By gravimetric analysis of filter sample	12051-65001
324	Organic and Elemental Carbon (OC/EC) in Particulate Matter		0 - 200 µg C/m <sup>3</sup>	As air volume specification (≥2.0 %relative)	2,100/3 filter samples	By thermal-optical analysis of filter sample	12051-65101
325	Purity assessment of high purity nitrogen Measurand: O <sub>2</sub> , CO, CO <sub>2</sub> , CH <sub>4</sub> , Ar, H <sub>2</sub> O		0.1-100 µmol/mol	2-30%relative	16,000/cylinder		12050-66001
326	Purity assessment of high purity oxygen Measurand: N <sub>2</sub> , CO, CO <sub>2</sub> , CH <sub>4</sub> , Ar, H <sub>2</sub> O		0.1-100 µmol/mol	2-30%relative	18,000/cylinder		12050-66101
327	Purity assessment of high purity carbon monoxide Measurand: O <sub>2</sub> , N <sub>2</sub> , CO <sub>2</sub> , CH <sub>4</sub> , H <sub>2</sub> O		0.1-100 µmol/mol	2-30%relative	13,000/cylinder		12050-66201
328	Purity assessment of high purity methane Measurand: O <sub>2</sub> , CO, CO <sub>2</sub> , THC, H <sub>2</sub> O		0.1-100 µmol/mol	2-30%relative	13,000/cylinder		12050-66301
<b>PT/Interlaboratory comparison</b>							
<b>Chemical Metrology and Biometry</b>							
329	volumetric apparatus		1 mL to 2000 mL	class A	calibration fee + 2500 for report	volumetric flask, pipette, burette, pycnometer	12032-70101
330	piston-operated volumetric apparatus		0.1 µL to 10 mL	0.03 µl	calibration fee + 2500 for report		12032-70102
331	pH meter		1 - 12 pH (-414.11 mV) to 414.11 mV	0.01 pH 0.06 mV	calibration fee + 2500 for report		12032-70103
332	Interlaboratory comparison (chemical and volume field)				2500/report	third party for comparison evaluation and reporting only	12032-70104
333	Gas analyzer		as specification	≥1.0%	calibration fee + 2500 for report	3-point calibration	12050-70101
334	Gas detector		as specification	≥1.0%	calibration fee + 2500 for report	1-point calibration	12050-70102
335	Analysis of gas composition		upon request	≥0.25%	calibration fee + 2500 for report	Gas reference/Certified gas reference Material	12050-70103