Price list
Analytical Chemistry Laboratory (ACL)

ITEMS	PARAMETER	RANGE	ACCREDITATION (ISO/IEC 17025)	METHOD/EQUIPMENTS	PRICE (BAHT)	REMARK
Food and Beverage	1-propanol	-		GC	1,500	
	1-propanol (n-PA)	-		GC	1,500	
	3-Me-1-BuOH (3-Methyl-1-Butylalcohol)	-		GC	1,500	
	Acetaldehyde	-		GC	1,500	
	Acetone	-		GC	1,500	
	Acid Insoluble Ash	-		AOAC	1,000	
	Acid value	0 - 4.0 mg KOH/gram of sample	✓	AOAC	800	(Y : Acid value in Vegetable oil)
	Acidity	-		AOAC,FCC	600	
	Aluminium	-		AAS, GF,ICP-OES	1,000	
	Antimony	-		GF,ICP-OES	1,500	
	Arsenic	0.13-1.30 mg/kg	✓	Hydride AAS,Hydride ICP-OES	1,500	(Y : As in Cereal and Cereal product)
	Barium	-		AAS, GF,ICP-OES	1,000	
	Basicity	-		AWWA	600	
	Benzene	-		GC	1,500	
	Benzoic acid and sorbic acid	-	✓	HPLC		(Y : Bensoic,Sorbic acid and its salt in Curry paste,alcohol beverage,salad and sauce)
	Boric acid	-		AOAC	1,000	
	Butyl acetate	-		GC	1,500	
	Butytic acid	-		HPLC, IC	1,500	
	Cadmium	-		AAS, GF,ICP-OES	1,000	
	Calcium	-		AAS, GF,ICP-OES	1,000	
	Calcium chloride	-		AOAC	1,500	
	Calcium gluconate	-		AOAC	1,500	
	Calcium Lactate	-		AOAC	1,500	
	Capsaicin and Dihydrocapsaicin	-		FCC/HPLC	1,500	
	Cabamates	-		LC-MS	3,500	
	Chloride	-		AOAC/ IC, ISE	1,500	
	Chromium	-		AAS, GF,ICP-OES	1,000	
	Chromium hexavalent	-		UV	2,000	
	Cobalt	-		AAS, GF,ICP-OES	1,500	

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ITEMS	PARAMETER	RANGE	ACCREDITATION (ISO/IEC 17025)	METHOD/EQUIPMENTS	PRICE (BAHT)	REMARK
	Conductivity	-		Conductivity Meter	800	
	Copper	-		AAS, GF,ICP-OES	1,000	
	Cyanide	-		IC, ISE	1,000	
	Ether extract	-		JECFA,FCC	800	
	Fluoride	-		IC, ISE	1,500	
	Foreign matter (contaminant)	-		Inspection	200	
	Formaldehyde	-		HPLC	1,500	
	Gold	-		AAS,GF	1,000	
	Grease & Oil	-		AWWA	800	
	Heavy metals (as Pb)	-		Food Chemical Codex	800	
	Ignition Loss	-		ASTM, TIS.188	800	
	Inorganic arsenic	-		LC-ICP-MS	5,000	
	Insoluble ash	-		AOAC	600	
	Insoluble residue	-		ASTM	800	
	Iodine	-		AOAC/IC	1,500	
	Iron	-		AAS, GF,ICP-OES	1,000	
	Lead	0.50-6.00 mg/kg and 0.10-1.00 mg/kg	✓	AAS, GF,ICP-OES	1,500	(Y: cereals and cereal products,milk and milk products : 0.50-600 mg/kg),(Y : Juices : 0.10-1.00 mg/kg)
	Magnesium	-		AAS, GF,ICP-OES	1,000	
	Manganese	-		AAS, GF,ICP-OES	1,000	
	Mercury	-		Hg-Analyzer,Hydride ICP-OES	1,500	
	Molybdenum	-		AAS, GF,ICP-OES	1,500	
	Nickel	-		AAS, GF,ICP-OES	1,000	
	Optical rotation	-		BS	600	
	Organic matter	-		JECFA	800	
	O-Toluene sulfonamide	-		GC	1,500	
	Peroxide Value	-		Autotitrator	1,500	
	Phenol	-		TIS.257	1,500	
	Phosphorus	-	✓	AOAC/UV	1,000	(Y : P in Milk by UV-VIS spectrophotometer)
	Phthalates	-		GCMS	6,000	
	Phytosterols	-		GCMS	6,000	

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ITEMS	PARAMETER	RANGE	ACCREDITATION (ISO/IEC 17025)	METHOD/EQUIPMENTS	PRICE (BAHT)	REMARK
	Platinum	-		AAS, GF,ICP-OES	1,000	
	Polyaromatic Hydrocarbon	-		GCMS	6,000	
	Potassium bromate	-		IC	1,500	
	Potassium Nitrate	-		IC	1,500	
	Potassium	-		AAS, GF,ICP-OES	1,000	
	Salinity	-		AWWA	600	
	Selenium	-		GF,ICP-OES	1,500	
	Silica	-		ASTM, JIS	1,200	
	Silicon	-		AAS, GF,ICP-OES	1,000	
	Silver	-		AAS, GF,ICP-OES	1,000	
	Sodium	-		AAS, GF,ICP-OES	1,000	
	Sodium Benzoate	-		HPLC	1,500	
	Sodium Nitrate	-		AOAC	1,500	
	Sodium carbonate	-		JECFA	800	
	Sodium chloride	-		JECFA,IC	1,500	
	Sulfur dioxide	-		AOAC/Titration	1,500	
	Sulphate	-		AOAC	1,000	
	Sulphate ash	-		TIS.337	800	
	Sulphide	-		USP/IC	1,000	
	Tin	-		AAS, GF,ICP-OES	1,000	
	Total acidity (as acetic acid)	-		AOAC/Titration	800	
	Total acidity (as tartaric acid)	-		AOAC/Titration	800	
	Vanadium	-		AAS, GF,ICP-OES	1,000	
	Water activity	0.100-0.990	✓	AOAC	800	(Y : Water activity in Food)
	Zinc	-		AAS, GF,ICP-OES	1,000	
	Sample size requirements : 5 x 100 g or ml in closed container					
Packaging	Aluminium	-		AAS, GF,ICP-OES	1,000	
	Antimony	-		GF,ICP-OES	1,500	
	Acrylamide	-		LCMS	4,500	
	Arsenic	-		Hydride AAS	1,500	
	Barium	-		AAS, GF,ICP-OES	1,000	
	Bisphenol A	10-180 mg/kg	✓	LC	2,500	(Y : Bisphenol A in Plastic)
	Cadmium	0.20-20.00 mg/kg	✓	In-house test method based on JETRO 2008	1,000	(Y : Cd n Plastic by Dry Ashing method)

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ITEMS	PARAMETER	RANGE	ACCREDITATION (ISO/IEC 17025)	METHOD/EQUIPMENTS	PRICE (BAHT)	REMARK
	Calcium	-		AAS, GF,ICP-OES	1,000	
	Chromium	-		AAS, GF,ICP-OES	1,000	
	Chromium hexavalent	-		GF-AAS, ICP-OPE	2,000	
	Cobalt	-		AAS, GF,ICP-OES	1,500	
	Color (4 % Acetic acid at 60 ^{o}C for 30 min.)	-		JETRO 2008	200	
	Copper	-		AAS, GF,ICP-OES	1,000	
	Evaporation residue (Water)	-		JETRO 2008	1,000	
	Evaporation residue (4 % acetic acid)	-		JETRO 2008	1,000	
	Evaporation residue (20 % ethanol)	-		JETRO 2008	1,000	
	Evaporation residue (n-Heptane)	-		JETRO 2008	1,000	
	Formaldehyde	-		HPLC	1,500	
	Germanium	-		AAS, GF,ICP-OES	1,500	
	Gold	-		AAS,GF	1,000	
	Heavy metals (as Pb)	-		JETRO 2008	500	
	Identification test	-		FT-IR	1,500	
	Iron	-		AAS, GF,ICP-OES	1,000	
	Lead	0.50-20.00 mg/kg	✓	In-house test method based on JETRO 2008	1,500	(Y : Pb n Plastic by Dry Ashing method)
	Magnesium	-		AAS, GF,ICP-OES	1,000	
	Manganese	-		AAS, GF,ICP-OES	1,000	
	Mercury	-		Hg-Analyzer	1,500	
	Molybdenum	-		AAS, GF,ICP-OES	1,500	
	Nickel	-		AAS, GF,ICP-OES	1,000	
	Phenol	-		TIS.257	1,500	
	Phthalates	-		GCMS	6,000	
	Platinum	-		AAS, GF,ICP-OES	1,000	
	Polyaromatic Hydrocarbon	-		GCMS	6,000	
	Potassium	-		AAS, GF,ICP-OES	1,000	
	Potassium permanganate consumption	-		JETRO 2008	1,000	
	Selenium	-		GF,ICP-OES	1,500	
	Silver	-		AAS, GF,ICP-OES	1,000	
	Tin	-		AAS, GF,ICP-OES	1,000	
	Tributyltin	-		GCMS	3,500	
	Vanadium	-		AAS, GF,ICP-OES	1,000	
	Zinc	-		AAS, GF,ICP-OES	1,000	

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ITEMS	PARAMETER	RANGE	ACCREDITATION (ISO/IEC 17025)	METHOD/EQUIPMENTS	PRICE (BAHT)	REMARK
	Sample size requirements : 100 x 5 piece in closed container sample					
Packaging (Notification of the Ministry of Public Health No.295)	Identification test	-		FT-IR	1,500	
	Material test (mg/kg)					
	Lead	0.50-20.00 mg/kg	✓	In-house test method based on JETRO 2008	1,500	(Y : Pb n Plastic by Dry Ashing method)
	Heavy metal (as Pb)	-		In-house test method based on JETRO 2008	500	
	Barium	-		Notification of the Ministry of Public Health No.295	1,000	
	Dibutyl tin compounds					NA
	Tricresyl phosphate					NA
	Vinyl chloride nonomer					NA
	Volalie compounds (toluene,elhylbenzene, isopropylbenzene,n-propylbenz and styrene)	-		Notification of the Ministry of Public Health No.295	3,000	
	Polyvinylidene Chloride	-		Notification of the Ministry of Public Health No.295	1,500	
	Arsenic	-		Notification of the Ministry of Public Health No.295	1,500	
	Residue extracted by n- Hexane	-		Notification of the Ministry of Public Health No.295	1,000	
	Soluble substance in xylene	-		Notification of the Ministry of Public Health No.295	1,000	
	Bisphenol A (including phenol and p-t-butylphenol)	-		Notification of the Ministry of Public Health No.295	5,000	
	Diphenyl carbonate	-		Notification of the Ministry of Public Health No.295	1,500	
	Amins (including trielyl maine and tri-butly amine)	-		Notification of the Ministry of Public Health No.295	3,500	
	Cadmium	0.20-20.00 mg/kg	✓	In-house test method based on JETRO 2008	1,000	(Y : Cd n Plastic by Dry Ashing method)
	Migration test (mg/dm^3)					
	Phenol	-		Notification of the Ministry of Public Health No.295	1,500	

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Analytical Chemistry Laboratory (ACL)

ITEMS	PARAMETER	RANGE	ACCREDITATION (ISO/IEC 17025)	METHOD/EQUIPMENTS	PRICE (BAHT)	REMARK
	Formaldehyde	-		Notification of the Ministry of Public Health No.295	1,500	
	Antimony	-		Notification of the Ministry of Public Health No.295	1,500	
	Germanium	-		Notification of the Ministry of Public Health No.295	1,500	
	Heavy metal (as Pb)	-		JETRO 2008	500	
	Potassium permanganate consumption	-		JETRO 2008	600	
	Evaporation residue (Water)	-		JETRO 2008	400	
	Evaporation residue (4 % acetic acid)	-		JETRO 2008	400	
	Evaporation residue (20 % ethanol)	-		JETRO 2008	400	
	Evaporation residue (n-Heptane)	-		JETRO 2008	1,000	
	Color	-		JETRO 2008	200	
	Bisphenol A (including phenol and p-t-butylphenol) in water extract (food with acidity > 5)	-		LCMS	6,000	
	Bisphenol A (including phenol and p-t-butylphenol) in 4% acetic acid extract (food with acidity > 5)	-		LCMS	6,000	
	Bisphenol A (including phenol and p-t-butylphenol) in 20% ethanol extract (food containg alcohol)	-		LCMS	6,000	
	Bisphenol A (including phenol and p-t-butylphenol) in n-Heptane extract (fatty food)	-		LCMS	6,000	
	Caprolactam	-		Notification of the Ministry of Public Health No.295	1,500	
	methacrylate	-		Notification of the Ministry of Public Health No.295	1,500	
	Salmonella spp. [A]	-		ISO , AOAC	700	
	Staphylococcus aureus [A]	-		ISO, AOAC	700	
	Clostridium perfringens [A]	-		ISO, ISO	700	
	Bacillus cereus [A]	-		ISO, APHA	700	
	Total				62,800	
	Sample size requirements : 100 x 5 piece in closed container sample **Please indicate the type of plastic**					

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ITEMS	PARAMETER	RANGE	ACCREDITATION (ISO/IEC 17025)	METHOD/EQUIPMENTS	PRICE (BAHT)	REMARK
	[A] : *Test is conducted by Biochemical and Microbiological Laboratory MTC.*					
Food Chemical Codex						
Aspartame	Appearance	-		FCC,JECFA	100	
	Assay	-		FCC,JECFA	1,500	
	Solubility	-		FCC,JECFA	400	
	Test for amine group	-		FCC,JECFA	1,000	
	Test for ester	-		FCC,JECFA	1,000	
	Loss on drying	-		FCC,JECFA	400	
	pH	-		FCC,JECFA	400	
	Specific rotation	-		FCC,JECFA	600	
	Spectrophotometry	-		FCC,JECFA	1,000	
	Sulfated ash	-		FCC,JECFA	800	
	Lead	-		FCC,JECFA	1,500	
	5-Benzyl-3,6-dioxo-2-piperazine acetic acid				-	NA
	Other optical isomers				-	NA
	Total				**8,700**	
	Sample size requirements : 5 x 100 g in closed container					
Benzoic acid and its salt	Appearance	-		FCC,JECFA	100	
	Assay	-		FCC,JECFA	1,500	
	Solubility	-		FCC,JECFA	400	
	Melting range	50-300 °C	✓	FCC,JECFA	400	
	Test for Benzoate	-		FCC,JECFA	1,000	
	pH	-		FCC,JECFA	400	
	Loss on drying	-		FCC,JECFA	400	
	Sublimation test	-		FCC,JECFA	1,000	
	Sulfated ash	-		FCC,JECFA	800	
	Readily carbonizable substances	-		FCC,JECFA	1,000	
	Readily oxidizable substances	-		FCC,JECFA	1,000	
	Chlorinated organic compounds	-		FCC,JECFA	1,000	
	Lead	-		FCC,JECFA	1,500	
	Total				**10,500**	
	Sample size requirements : 5 x 100 g in closed container					

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ITEMS	PARAMETER	RANGE	ACCREDITATION (ISO/IEC 17025)	METHOD/EQUIPMENTS	PRICE (BAHT)	REMARK
Calcium hydrogen phosphate	Appearance	-		FCC,JECFA	100	
	Assay	-		FCC,JECFA	1,500	
	Solubility	-		FCC,JECFA	400	
	Test for calcium	-		FCC,JECFA	1,000	
	Test for phosphate	-		FCC,JECFA	1,000	
	Loss on drying	-		FCC,JECFA	400	
	Fluoride	-		FCC,JECFA	1,500	
	Arsenic	-		FCC,JECFA	1,500	
	Lead	-		FCC,JECFA	1,500	
	Total				**8,900**	
	Sample size requirements : 5 x 100 g in closed container					
calcium oxide	Appearance	-		FCC,JECFA	100	
	Assay				-	NA
	Solubility	-		FCC,JECFA	400	
	Reaction with water	-		FCC,JECFA	1,000	
	Test for alkali	-		FCC,JECFA	700	
	Test for calcium	-		FCC,JECFA	1,000	
	Loss on ignition	-		FCC,JECFA	800	
	Barium	-		FCC,JECFA	1,000	
	Magnesium	-		FCC,JECFA	1,000	
	alkali salts	-		FCC,JECFA	600	
	Acid insoluble matter	-		FCC,JECFA	1,000	
	Fluoride	-		FCC,JECFA	1,500	
	Lead	-		FCC,JECFA	1,500	
	Total				**10,600**	
	Sample size requirements : 5 x 100 g in closed container					
Calcium propionate	Appearance	-		FCC,JECFA	100	
	Assay				-	NA
	Solubility	-		FCC,JECFA	400	
	Test for calcium	-		FCC,JECFA	1,000	
	Test for propionate	-		FCC,JECFA	1,000	
	Test for alkali salt of organic acid	-		FCC,JECFA	1,000	
	Loss on drying	-		FCC,JECFA	400	
	pH	-		FCC,JECFA	400	

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Analytical Chemistry Laboratory (ACL)

ITEMS	PARAMETER	RANGE	ACCREDITATION (ISO/IEC 17025)	METHOD/EQUIPMENTS	PRICE (BAHT)	REMARK
	Water insoluble matter	-		FCC,JECFA	1,000	
	Fluoride	-		FCC,JECFA	1,500	
	Iron	-		FCC,JECFA	1,000	
	Lead	-		FCC,JECFA	1,500	
	Total				**9,300**	
	Sample size requirements : 5 x 100 g in closed container					
Carob bean gum	Appearance	-		FCC,JECFA	100	
	Identification	-		FCC,JECFA	1,000	
	Solubility	-		FCC,JECFA	400	
	Gel formation	-		FCC,JECFA	1,000	
	Viscosity	-		FCC,JECFA	600	
	Gum constituents	-		FCC,JECFA	1,000	
	Microscopic examination	-		FCC,JECFA	1,500	
	Loss on drying	-		FCC,JECFA	400	
	Total ash	-		FCC,JECFA	800	
	Acid-insoluble matter	-		FCC,JECFA	800	
	Starch	-		FCC,JECFA	1,500	
	Ethanol	-		FCC,JECFA	1,500	
	Isopropanol	-		FCC,JECFA	1,500	
	Lead	-		FCC,JECFA	1,500	
	Protein	-		FCC,JECFA	600	
	Microbiological criteria [A]	-				
	Total plate count [A]			JECFA	400	
	E. coli [A]			JECFA	700	
	Salmonella [A]			JECFA	700	
	Yeasts and moulds [A]			JECFA	400	
	Total				**14,600**	
	Sample size requirements : 5 x 100 g in closed container					
	[A] ***: Test is conducted by Biochemical and Microbiological Laboratory MTC.***					
Carrageenan	Appearance	-		FCC,JECFA	100	
	Solubility	-		FCC,JECFA	400	
	Test for sulfate	-		FCC,JECFA	1,000	
	Test for galactose and anhydrogalactose				-	NA
	Identification of hydrocolloid and predominant type of copolymer	-		FCC,JECFA	1,500	

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ITEMS	PARAMETER	RANGE	ACCREDITATION (ISO/IEC 17025)	METHOD/EQUIPMENTS	PRICE (BAHT)	REMARK
	Infrared absorption	-		FCC,JECFA	1,500	
	Loss on drying	-		FCC,JECFA	400	
	pH	-		FCC,JECFA	400	
	Viscosity	-		FCC,JECFA	600	
	Sulfate	-		FCC,JECFA	1,000	
	Total ash	-		FCC,JECFA	800	
	Acid-insoluble ash	-		FCC,JECFA	1,000	
	Acid-insoluble matter	-		FCC,JECFA	1,000	
	Residual solvents Ethanol,Isopropanol,Methanol	-		FCC,JECFA	4,500	
	Arsenic	-		FCC,JECFA	1,500	
	Lead	-		FCC,JECFA	1,500	
	Cadmium	-		FCC,JECFA	1,000	
	Mercury	-		FCC,JECFA	1,500	
	Microbiological criteria					
	Total Plate Count[A]	-		JECFA	400	
	Salmonella spp [A]	-		JECFA	700	
	E.Coli [A]	-		JECFA	700	
	Total				**21,500**	
	Sample size requirements : 5 x 100 g in closed container					
	[A] : Test is conducted by Biochemical and Microbiological Laboratory MTC.					
Citric acid (anhydrous ,monohydrate)	Appearance	-		FCC,JECFA	100	
	Assay	-		FCC,JECFA	1,500	
	Solubility	-		FCC,JECFA	400	
	Test for citrate	-		FCC,JECFA	1,000	
	Water	0.10-100.0 %	✓	FCC,JECFA	1,500	
	Sulfated ash	< 0.05 % (w/w) (at 800 °C)	✓	FCC,JECFA	800	
	Oxalate	-		FCC,JECFA	800	
	Sulfates	-		FCC,JECFA	1,000	
	Readily carbonizable substances	-		FCC,JECFA	1,000	
	Lead	-		FCC,JECFA	1,500	
	Total				**9,600**	
	Sample size requirements : 5 x 100 g in closed container					
DL malic acid	Appearance	-		FCC,JECFA	100	
	Assay	-		FCC,JECFA	1,500	

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ITEMS	PARAMETER	RANGE	ACCREDITATION (ISO/IEC 17025)	METHOD/EQUIPMENTS	PRICE (BAHT)	REMARK
	Solubility	-		FCC,JECFA	400	
	Melting range	50-300 °C	✓	FCC,JECFA	600	
	Test for malate	-		FCC,JECFA	1,000	
	Fumaric	-		FCC,JECFA	1,500	
	maleic acid	-		FCC,JECFA	1,500	
	Lead	-		FCC,JECFA	1,500	
	Total				**8,100**	
	Sample size requirements : 5 x 100 g in closed container					
Erythritol	Appearance	-		FCC,JECFA	100	
	Assay	-		FCC,JECFA	1,500	
	Solubility	50-300 °C	✓	FCC,JECFA	400	
	Melting range	-		FCC,JECFA	600	
	Main Peak in HPLC	-		FCC,JECFA	1,500	
	Loss on drying	-		FCC,JECFA	400	
	Sulfated ash	-		FCC,JECFA	800	
	Reducing substandces	-		FCC,JECFA	1,000	
	Ribitol and glycerol				-	NA
	Lead	-		FCC,JECFA	1,500	
	Total				**7,800**	
	Sample size requirements : 5 x 100 g in closed container					
Glucono-d-Lactone	Appearance	-		FCC,JECFA	100	
	Assay	-		FCC,JECFA	1,500	
	Solubility	-		FCC,JECFA	400	
	Colour reaction	-		FCC,JECFA	1,000	
	Test for gluconate	-		FCC,JECFA	1,000	
	Loss on drying	-		FCC,JECFA	400	
	Sulfated ash	-		FCC,JECFA	800	
	Reducing substandces				-	NA
	Lead	-		FCC,JECFA	1,500	
	Total				**6,700**	
	Sample size requirements : 5 x 100 g in closed container					
Glycine (FCC)	Appearance	-		FCC	100	
	Identification	-		FCC	1,000	
	Assay	-		FCC	1,500	
	Lead	-		FCC	1,500	
	Loss on drying	-		FCC	400	
	Residue on Ignition	-		FCC	800	

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ITEMS	PARAMETER	RANGE	ACCREDITATION (ISO/IEC 17025)	METHOD/EQUIPMENTS	PRICE (BAHT)	REMARK
	Total				**5,300**	
	Sample size requirements : 5 x 100 g in closed container					
Guar gum	Appearance	-		FCC,JECFA	100	
	Gel formation	-		FCC,JECFA	1,000	
	Viscosity	-		FCC,JECFA	600	
	Gum constituents				-	NA
	Microscopic examination	-		FCC,JECFA	1,500	
	Loss on drying	-		FCC,JECFA	400	
	Borate	-		FCC,JECFA	1,000	
	Total ash	-		FCC,JECFA	800	
	Acid-insoluble matter	-		FCC,JECFA	800	
	Ethanol	-		FCC,JECFA	1,500	
	Isopropanol	-		FCC,JECFA	1,500	
	Lead	-		FCC,JECFA	1,500	
	Protein[A]	-		FCC,JECFA	600	
	Microbiological criteria [A]					
	Total plate count[A]	-		JECFA	400	
	E. coli [A]	-		JECFA	700	
	Salmonella [A]	-		JECFA	700	
	Yeasts and moulds [A]	-		JECFA	400	
	Total				**13,500**	
	Sample size requirements : 5 x 100 g in closed container					
	[A] : Test is conducted by Biochemical and Microbiological Laboratory MTC.					
Hydrogenated stach hydrolysate (Polyglycitol syrup)	Appearance	-		FCC,JECFA	100	
	Assay maltitol	-		HPLC	1,500	
	Assay sorbitol	-		HPLC	1,500	
	**Total hydrogenated saccharides	-		FCC,JECFA	-	NA
	Solubility	-		FCC,JECFA	400	
	Test for maltitol	-		FCC,JECFA	1,000	
	Test for sorbitol	-		FCC,JECFA	1,000	
	Water	0.10-100 %	✓	FCC,JECFA	1,500	
	Sulfated ash	-		FCC,JECFA	800	
	Chloride	-		FCC,JECFA	1,500	

Price list
Analytical Chemistry Laboratory (ACL)

ITEMS	PARAMETER	RANGE	ACCREDITATION (ISO/IEC 17025)	METHOD/EQUIPMENTS	PRICE (BAHT)	REMARK
	Sulfates	-		FCC,JECFA	1,000	
	Nickel	-		FCC,JECFA	1,000	
	Reducing sugars	-		FCC,JECFA	1,000	
	Lead	-		FCC,JECFA	1,500	
	Total				**13,800**	
	Sample size requirements : 5 x 100 g in closed container					
	[A] : Test is conducted by Biochemical and Microbiological Laboratory MTC.					
Konjac Flour	Appearance	-		FCC,JECFA	100	
	Assay	-		FCC,JECFA	1,500	
	Solubility	-		FCC,JECFA	400	
	Gel formation	-		FCC,JECFA	1,000	
	Formation of heat-stable gel	-		FCC,JECFA	1,500	
	Loss on drying	-		FCC,JECFA	400	
	Total ash	-		FCC,JECFA	800	
	Lead	-		FCC,JECFA	1,500	
	protein[A]	-		FCC,JECFA	600	
	Total				**7,800**	
	Sample size requirements : 5 x 100 g in closed container					
	[A] : Test is conducted by Biochemical and Microbiological Laboratory MTC.					
Lecithin	Appearance	-		FCC,JECFA	100	
	Assay	-		FCC,JECFA	1,500	
	Solubility	-		FCC,JECFA	400	
	Test for phosphorus	-		FCC,JECFA	1,000	
	Test for choline	-		FCC,JECFA	1,000	
	Test for fatty acids	-		FCC,JECFA	1,500	
	Test for hydrolysis	-		FCC,JECFA	1,500	
	Loss on drying	-		FCC,JECFA	400	
	Acid Value	-		FCC,JECFA	800	
	Peroxide Value	-		FCC,JECFA	1,500	
	Toluene-insoluble matter	-		FCC,JECFA	1,000	
	Lead	-		FCC,JECFA	1,500	
	Total				**12,200**	
	Sample size requirements : 5 x 100 g in closed container					
Lysozyme Hydrochloride	Appearance	-		FCC,JECFA	100	

Price list
Analytical Chemistry Laboratory (ACL)

ITEMS	PARAMETER	RANGE	ACCREDITATION (ISO/IEC 17025)	METHOD/EQUIPMENTS	PRICE (BAHT)	REMARK
	Assay				-	NA
	Solubility				-	NA
	pH	-		FCC,JECFA	400	
	Spectrophotometry	-		FCC,JECFA	1,000	
	Water	0.10-100 %	✓	FCC,JECFA	1,500	
	Residue on ignition	-		FCC,JECFA	800	
	Nitrogen	-		FCC,JECFA	1,000	
	Chlorides	-		FCC,JECFA	1,500	
	sodium	-		FCC,JECFA	1,000	
	Microbiological criteria[A]					
	Total bacterial count[A]	-		JECFA	400	
	Salmonella spp. [A]	-		JECFA	700	
	Staphylococcus aureus [A]	-		JECFA	700	
	E. coli [A]	-		JECFA	700	
	Lead	-		FCC,JECFA	1,500	
	Total				**11,300**	
	Sample size requirements : 5 x 100 g in closed container					
	[A] : Test is conducted by Biochemical and Microbiological Laboratory MTC.					
Maltitol	Appearance	-		FCC,JECFA	100	
	Assay[A]	-		HPLC	1,500	
	Solubility	-		FCC,JECFA	400	
	Melting range	-		FCC,JECFA	600	
	Tin layer Chromatography	-		FCC,JECFA	1,500	
	water	0.10-100 %	✓	FCC,JECFA	1,500	
	Specific rotation	-		FCC,JECFA	600	
	Sulfated ash (Residue on Ignition)	-		FCC,JECFA	800	
	Chlorides	-		FCC,JECFA	1,500	
	Sulfates	-		FCC,JECFA	1,000	
	Reducing sugars	-		FCC,JECFA	1,000	
	Lead	-		FCC,JECFA	1,500	
	Heavy metals (as Pb)	-		FCC,JECFA	800	
	Total				**12,800**	
	Sample size requirements : 5 x 100 g in closed container					
	[A] : Test is conducted by Biochemical and Microbiological Laboratory MTC.					
Maltitol Syrup	Appearance	-		FCC,JECFA	100	
	Assay[A]	-		FCC,JECFA	1,500	

Price list
Analytical Chemistry Laboratory (ACL)

ITEMS	PARAMETER	RANGE	ACCREDITATION (ISO/IEC 17025)	METHOD/EQUIPMENTS	PRICE (BAHT)	REMARK
	**Total Hydrogenated saccharides	-		FCC,JECFA	-	We can test this item but do not charge
	Solubility	-		FCC,JECFA	400	
	Tin layer Chromatography	-		FCC,JECFA	1,500	
	water	0.10-100 %	✓	FCC,JECFA	1,500	
	Sulfated ash	-		FCC,JECFA	800	
	Chlorides	-		FCC,JECFA	1,500	
	Sulfates	-		FCC,JECFA	1,000	
	Nickel	-		FCC,JECFA	1,000	
	Reducing sugars	-		FCC,JECFA	1,000	
	Lead	-		FCC,JECFA	1,500	
	Total				**11,800**	
	Sample size requirements : 5 x 100 g in					
	[A] : Test is conducted by Biochemical and Microbiological Laboratory MTC.					
Maltodextrin	Appearance	-		FCC,JECFA	100	
	Identification	-		FCC,JECFA	1,000	
	Assay (dextrose equivalent)[A]	-		FCC,JECFA	1,500	
	Lead	-		FCC,JECFA	1,500	
	Protein[A]	-		FCC,JECFA	600	
	Residue on Ignition	-		FCC,JECFA	800	
	Sulfur Dioxide	-		FCC,JECFA	1,500	
	Total solids	-		FCC,JECFA	400	
	Moisture	-		FCC,JECFA	400	
	Total				**7,800**	
	Sample size requirements : 5 x 100 g in closed container					
	[A] : Test is conducted by Biochemical and Microbiological Laboratory MTC.					
Modified Starches	Appearance	-		FCC,JECFA	100	
	Solubility	-		FCC,JECFA	400	
	Microscopy	-		FCC,JECFA	1,000	
	Iodine stain	-		FCC,JECFA	1,000	
	Copper reduction	-		FCC,JECFA	1,000	
	Differentiation test	-		FCC,JECFA	1,000	
	Sulfur dioxide	-		FCC,JECFA	1,500	
	Lead	-		FCC,JECFA	1,500	
	phosphate (as phosphorus)	-		FCC,JECFA	1,500	
	Dextrin roasted starch: INS No. 1400 (pH)	-		FCC,JECFA	400	
	Acid treated starch: INS No. 1401 (pH)	-		FCC,JECFA	400	

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Analytical Chemistry Laboratory (ACL)

ITEMS	PARAMETER	RANGE	ACCREDITATION (ISO/IEC 17025)	METHOD/EQUIPMENTS	PRICE (BAHT)	REMARK
	Alkaline treated starch: INS No. 1402 (pH)	-		FCC,JECFA	400	
	Bleached starch: INS No. 1403 (carbonyl group),(manganese)	-		FCC,JECFA	2,500	
	Oxidized starch: INS No. 1404 (carbonyl group)	-		FCC,JECFA	1,500	
	Enzyme-treated starch: INS No. 1405	-		FCC,JECFA	-	NA
	Monostarch phosphate: INS No. 1410 (phosphate (cal as Phosphorus)	-		FCC,JECFA	1,500	
	Distarch phosphate: INS No. 1412 (phosphate (cal as Phosphorus)	-		FCC,JECFA	1,500	
	Phosphated distarch phosphate: INS No. 1413 phosphate (cal as Phosphorus)	-		FCC,JECFA	1,500	
	Acetylated distarch phosphate: INS No. 1414 (Acetyl groups, phosphate (cal as Phosphorus)	-		FCC,JECFA	3,000	
	Starch acetate: INS No. 1420 (Acetyl groups)	-		FCC,JECFA	1,500	
	Acetylated distarch adipate: INS No. 1422 (Acetyl groups)	-		FCC,JECFA	1,500	
	Hydroxypropyl starch: INS No. 1440 (Hydroxypropyl groups,propylene chlorohydrin)	-		FCC,JECFA	-	NA
	Hydroxypropyl distarch phosphate: INS No. 1442 (Hydroxypropyl groups,propylene chlorohydrin,phosphate(as Phosphorus)	-		FCC,JECFA	1,500	
	Starch sodium octenylsuccinate: INS No. 1450 (Octenylsuccinyl groups,octenylsuccinic acid)	-		FCC,JECFA	-	NA
	Acetylated oxidized starch: INS No. 1451 (Acetyl groups,carboxyl groups)	-		FCC,JECFA	3,000	
	Total				**29,200**	
	Sample size requirements : 5 x 100 g in closed container					
Mono – and diglycerides	Appearance	-		FCC,JECFA	100	
	Solubility	-		FCC,JECFA	400	
	Infrared absorption	-		FCC,JECFA	1,000	

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ITEMS	PARAMETER	RANGE	ACCREDITATION (ISO/IEC 17025)	METHOD/EQUIPMENTS	PRICE (BAHT)	REMARK
	Tests for fatty acids[A]	-		FCC,JECFA	2,000	
	Test for glycerol	-		FCC,JECFA	1,000	
	Water	0.10-100 %	✓	FCC,JECFA	1,500	
	Acid value	-		FCC,JECFA	800	
	Free glycerol	-		FCC,JECFA	1,500	
	Soap	-		FCC,JECFA	600	
	Lead	-		FCC,JECFA	1,500	
	Total				**10,400**	
	Sample size requirements : 5 x 100 g in closed container					
	[A] : Test is conducted by Biochemical and Microbiological Laboratory MTC.					
Pectin	Appearance	-		FCC,JECFA	100	
	Test for pectins	-			-	NA
	Test for amide group	-		FCC,JECFA	1,000	
	Loss on drying	-		FCC,JECFA	400	
	Sulfur dioxide	-		FCC,JECFA	1,500	
	Methanol	-		FCC,JECFA	1,500	
	Ethanol	-		FCC,JECFA	1,500	
	2-propanol	-		FCC,JECFA	1,500	
	Acid-insoluble ash	-		FCC,JECFA	1,000	
	Total insolubles	-		FCC,JECFA	800	
	Nitrogen content	-		FCC,JECFA	1,000	
	Galacturonic acid	-		FCC,JECFA	1,500	
	Degree of amidation	-		FCC,JECFA	1,000	
	Lead	-		FCC,JECFA	1,500	
	Total				**14,300**	
	Sample size requirements : 5 x 100 g in closed container					
Potassium Nitrate	Appearance	-		FCC,JECFA	100	
	Assay	-		FCC,JECFA	1,500	
	Solubility	-		FCC,JECFA	400	
	Test for potassium	-		FCC,JECFA	1,000	
	Loss on nitrate	-		FCC,JECFA	1,000	
	Loss on drying	-		FCC,JECFA	400	
	Nitrite	-		FCC,JECFA	1,500	
	Lead	-		FCC,JECFA	1,500	
	Total				**7,400**	
	Sample size requirements : 5 x 100 g in closed container					
Potassium sorbate	Appearance	-		FCC,JECFA	100	
	Assay	-		FCC,JECFA	1,500	

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ITEMS	PARAMETER	RANGE	ACCREDITATION (ISO/IEC 17025)	METHOD/EQUIPMENTS	PRICE (BAHT)	REMARK
	Solubility	-		FCC,JECFA	400	
	Test for potassium	-		FCC,JECFA	1,000	
	Melting range of sorbic acid derived from the sample	-		FCC,JECFA	1,000	
	Test for unsaturation	-		FCC,JECFA	1,000	
	Loss on drying	-		FCC,JECFA	400	
	Acidity or alkalinity	-		FCC,JECFA	1,000	
	Aldehydes				-	NA
	Lead	-		FCC,JECFA	1,500	
	Total				**7,900**	
	Sample size requirements : 5 x 100 g in closed container					
Sodium acetate (Anhydrous)	Appearance	-		FCC,JECFA	100	
	Assay	-		FCC,JECFA	1,500	
	Solubility	-		FCC,JECFA	400	
	pH	-		FCC,JECFA	400	
	Test for sodium	-		FCC,JECFA	1,000	
	Test for acetate	-		FCC,JECFA	1,000	
	Heat test	-		FCC,JECFA	1,000	
	Loss on drying	-		FCC,JECFA	400	
	Test for potassium	-		FCC,JECFA	1,000	
	Acidity and Alkalinity (600+700)	-		FCC,JECFA	1,300	
	Lead	-		FCC,JECFA	1,500	
	Total				**9,600**	
	Sample size requirements : 5 x 100 g in closed container					
Sodium Erythorbate	Appearance	-		FCC,JECFA	100	
	Assay	-		FCC,JECFA	1,500	
	Solubility	-		FCC,JECFA	400	
	Reducing activity	-		FCC,JECFA	1,000	
	Test for ascorbate	-		FCC,JECFA	1,000	
	Test for sodium	-		FCC,JECFA	1,000	
	Loss on drying	-		FCC,JECFA	400	
	Specific rotation	-		FCC,JECFA	600	
	pH	-		FCC,JECFA	400	
	Oxalate	-		FCC,JECFA	800	
	Lead	-		FCC,JECFA	1,500	
	Total				**8,700**	
	Sample size requirements : 5 x 100 g in closed container					
Sodium fumarate	Appearance	-		FCC,JECFA	100	
	Assay	-		FCC,JECFA	1,500	

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ITEMS	PARAMETER	RANGE	ACCREDITATION (ISO/IEC 17025)	METHOD/EQUIPMENTS	PRICE (BAHT)	REMARK
	Solubility	-		FCC,JECFA	400	
	pH	-		FCC,JECFA	400	
	1,2 Dicarboxylic acid	-			-	NA
	Test for double bond	-		FCC,JECFA	1,000	
	Test for sodium	-		FCC,JECFA	1,000	
	Loss on drying	-		FCC,JECFA	400	
	Sulfates	-		FCC,JECFA	1,000	
	Maleic acid	-		FCC,JECFA	1,500	
	Lead	-		FCC,JECFA	1,500	
	Total				**8,800**	
	Sample size requirements : 5 x 100 g in closed container					
Sodium Hydrogen Carbonate	Appearance	-		FCC,JECFA	100	
	Assay	-		FCC,JECFA	1,500	
	Solubility	-		FCC,JECFA	400	
	pH	-		FCC,JECFA	400	
	Test for sodium	-		FCC,JECFA	1,000	
	Test for carbonate	-		FCC,JECFA	1,000	
	Loss on drying	-		FCC,JECFA	400	
	Water insoluble substances	-		FCC,JECFA	1,000	
	Ammonium salt	-		FCC,JECFA	1,000	
	Lead	-		FCC,JECFA	1,500	
	Total				**8,300**	
	Sample size requirements : 5 x 100 g in closed container					
Sodium Gluconate	Appearance	-		FCC,JECFA	100	
	Assay	-		FCC,JECFA	1,500	
	Solubility	-		FCC,JECFA	400	
	Test for sodium	-		FCC,JECFA	1,000	
	Test for gluconate	-		FCC,JECFA	1,000	
	Reducing substandces				-	NA
	Lead	-		FCC,JECFA	1,500	
	Total				**5,500**	
	Sample size requirements : 5 x 100 g in closed container					
Sorbitan Tristearate	Appearance	-		FCC,JECFA	100	
	Assay	-		FCC,JECFA	1,500	
	Solubility	-		FCC,JECFA	400	

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Analytical Chemistry Laboratory (ACL)

ITEMS	PARAMETER	RANGE	ACCREDITATION (ISO/IEC 17025)	METHOD/EQUIPMENTS	PRICE (BAHT)	REMARK
	Congealing range				-	NA
	Water	0.10-100 %	✓	FCC,JECFA	1,500	
	Sulfated ash	-		FCC,JECFA	800	
	Acid value	-		FCC,JECFA	600	
	Saponification value	-		FCC,JECFA	600	
	Hydroxyl value				-	NA
	Lead	-		FCC,JECFA	1,500	
	Sample size requirements : 5 x 100 g in closed container					
Sorbitol Syrup	Appearance	-		FCC,JECFA	100	
	Assay[A]	-		HPLC	1,500	
	**Total Hydrogenated saccharides	-		FCC,JECFA	-	Not charge for this item
	Solubility	-		FCC,JECFA	400	
	Tin layer Chromatography	-		FCC,JECFA	1,500	
	water	0.10-100 %	✓	FCC,JECFA	1,500	
	Sulfated ash	-		FCC,JECFA	800	
	Chlorides	-		FCC,JECFA	1,500	
	Sulfates	-		FCC,JECFA	1,000	
	Nickel	-		FCC,JECFA	1,000	
	Reducing sugars	-		FCC,JECFA	1,000	
	Lead	-		FCC,JECFA	1,500	
	Total				**11,800**	
	Sample size requirements : 5 x 100 g in closed container					
	[A] : Test is conducted by Biochemical and Microbiological Laboratory MTC.					
Steviol Glycosides	Appearance	-		FCC,JECFA	100	
	Assay	-		FCC,JECFA	1,500	
	Solubility	-		FCC,JECFA	400	
	*Stevioside and rebaudioside A					NA
	pH	-		FCC,JECFA	400	
	Total ash	-		FCC,JECFA	800	
	Loss on drying	-		FCC,JECFA	400	
	Residual solvent (methanol and ethanol)	-		FCC,JECFA	3,000	
	Arsenic	-		FCC,JECFA	1,500	
	Lead	-		FCC,JECFA	1,500	
	Total				**9,600**	
	Sample size requirements : 5 x 100 g in closed container					

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ITEMS	PARAMETER	RANGE	ACCREDITATION (ISO/IEC 17025)	METHOD/EQUIPMENTS	PRICE (BAHT)	REMARK
Sucralose	Appearance	-		FCC,JECFA	100	
	Assay[A]	-		HPLC	1,500	
	Solubility	-		FCC,JECFA	400	
	Infrared absorption	-		FCC,JECFA	1,000	
	Thin layer chromatography	-		FCC,JECFA	1,500	
	Water	0.10-100 %	✓	FCC,JECFA	1,500	
	Specific rotation	-		FCC,JECFA	400	
	Sulfated ash	-		FCC,JECFA	800	
	Other chlorinated disaccharides	-		FCC,JECFA	1,000	
	Chlorinated monosaccharides	-		FCC,JECFA	1,000	
	Triphenylphosphine oxide	-		FCC,JECFA	1,500	
	Methanol	-		FCC,JECFA	1,500	
	Lead	-		FCC,JECFA	1,500	
	Total				**13,700**	
	Sample size requirements : 5 x 100 g in closed container					
	[A] : Test is conducted by Biochemical and Microbiological Laboratory MTC.					
Tara gum	Appearance	-		FCC,JECFA	100	
	Solubility	-		FCC,JECFA	400	
	Gel test	-			-	NA
	Viscosity	-		FCC,JECFA	400	
	Gum constitruents	-			-	NA
	Microscopic examination	-			-	NA
	Loss on drying	-		FCC,JECFA	400	
	Ash	-		FCC,JECFA	800	
	Acid insoluble matter	-		FCC,JECFA	1,000	
	protein[A]	-		FCC,JECFA	600	
	starch	-		FCC,JECFA	1,500	
	Lead	-		FCC,JECFA	1,500	
	Total				**6,700**	
	Sample size requirements : 5 x 100 g in closed container					
	[A] : Test is conducted by Biochemical and Microbiological Laboratory MTC.					
Trisodium Citrate	Appearance	-		FCC,JECFA	100	
	Assay	-		FCC,JECFA	1,500	
	Solubility	-		FCC,JECFA	400	
	Test for citrate	-		FCC,JECFA	1,000	
	Test for sodium	-		FCC,JECFA	1,000	

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Analytical Chemistry Laboratory (ACL)

ITEMS	PARAMETER	RANGE	ACCREDITATION (ISO/IEC 17025)	METHOD/EQUIPMENTS	PRICE (BAHT)	REMARK
	Loss on drying	-		FCC,JECFA	400	
	Alkalinity	-		FCC,JECFA	700	
	Oxalate	-		FCC,JECFA	800	
	Lead	-		FCC,JECFA	1,500	
	Total				**7,400**	
	Sample size requirements : 5 x 100 g in closed container					
Xanthan gum	Appearance	-		FCC,JECFA	100	
	Assay			FCC,JECFA	-	NA
	Solubility	-		FCC,JECFA	400	
	Gel formation			FCC,JECFA	-	NA
	Loss on drying	-		FCC,JECFA	400	
	Ash (total)	-		FCC,JECFA	800	
	Pyruvic acid	-		FCC,JECFA	1,500	
	Nitrogen	-		FCC,JECFA	600	
	Ethanol	-		FCC,JECFA	1,500	
	Isopropanol	-		FCC,JECFA	1,500	
	Lead	-		FCC,JECFA	1,500	
	Total plate count[A]	-		JECFA	400	
	Yeast and Mould [A]	-		JECFA	400	
	E.Coli [A]	-		JECFA	700	
	Salmonella spp [A]	-		JECFA	700	
	Total				**10,500**	
	Sample size requirements : 5 x 100 g in closed container					
	[A] : Test is conducted by Biochemical and Microbiological Laboratory MTC.					
Xylitol	Appearance	-		FCC,JECFA	100	
	Assay[A]	-		HPLC	1,500	
	Solubility	-		FCC,JECFA	400	
	Melting range	50-300 °C	✓	FCC,JECFA	600	
	Infrared absorption	-		FCC,JECFA	1,500	
	water	-		FCC,JECFA	1,500	
	Sulfated ash	-		FCC,JECFA	800	
	Nickel	-		FCC,JECFA	1,000	
	Reducing sugars	-		FCC,JECFA	1,000	
	Other polyois			-	-	NA

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ITEMS	PARAMETER	RANGE	ACCREDITATION (ISO/IEC 17025)	METHOD/EQUIPMENTS	PRICE (BAHT)	REMARK
	Lead	-		FCC,JECFA	1,500	
	Total				**9,900**	
	Sample size requirements : 5 x 100 g in closed container					
	[A] : Test is conducted by Biochemical and Microbiological Laboratory MTC.					
Food Additives (Mixed)	Appearance	-		FCC,JECFA	100	
	Lead	-		FCC,JECFA	1,500	
	Arsenic	-		FCC,JECFA	1,500	
	Salmonella spp [A]	-		AOAC	700	
	Clostridium perfringens [A]	-		ISO	700	
	E.Coli [A]	-		FDA BAM	700	
	Staphylococcus aureus [A]	-		ISO	700	
	Total				**5,900**	
	Sample size requirements : 5 x 100 g in closed container					
	[A] : Test is conducted by Biochemical and Microbiological Laboratory MTC.					
Water Water(TIS.257-2549)	Contaminants	-		TIS.257-2549	100	
	Odor	-		TIS.257-2549	200	
	Taste	-		TIS.257-2549	200	
	pH	4.0-10.00	✓	TIS.257-2549	200	
	Color	-		TIS.257-2549	200	
	Turbidity	-		TIS.257-2549	200	
	Iron	0.2-3.0 mg/dm^3	✓	TIS.257-2549	700	
	Manganese	0.1-3.0 mg/dm^3	✓	TIS.257-2549	700	
	Copper	0.1-3.0 mg/dm^3	✓	TIS.257-2549	700	
	Zinc	0.02 to 0.50 mg/dm^3	✓	TIS.257-2549	700	
	Linear alkyl benzenesulfonate	-		TIS.257-2549	1,500	
	Total Dissolved Solids	-		TIS.257-2549	600	
	Sulfate	-		TIS.257-2549	800	
	Chloride	-		TIS.257-2549	1,500	
	Fluoride	-		TIS.257-2549	1,500	
	Nitrate	-		TIS.257-2549	1,500	
	Mercury	-		TIS.257-2549	1,500	
	Arsenic	0.005 to 0.050 mg/dm^3	✓	TIS.257-2549	1,000	
	Lead	0.2-3.0 mg/dm^3	✓	TIS.257-2549	700	
	Selenium	-		TIS.257-2549	1,200	

Price list
Analytical Chemistry Laboratory (ACL)

ITEMS	PARAMETER	RANGE	ACCREDITATION (ISO/IEC 17025)	METHOD/EQUIPMENTS	PRICE (BAHT)	REMARK
	Chromium hexavalent	-		TIS.257-2549	2,000	
	Cadmium	0.03-0.50 mg/dm^3	✓	TIS.257-2549	700	
	Barium	-		TIS.257-2549	700	
	Total Hardness (as $CaCO_3$)	10-300 mg/L	✓	TIS.257-2549	700	
	Cyanide	-		TIS.257-2549	1,500	
	Phenolic substances	-		TIS.257-2549	1,500	
	Salmonella spp.[A]	-		AWWA, APHA, WEF	700	
	Staphylococcus aureus [A]	-		AWWA, APHA, WEF	700	
	Clostridium perfringens [A]	-		AWWA, APHA, WEF	700	
	Escherichia coli [A]	-		AWWA, APHA, WEF	700	
	Coliforms [A]	-		AWWA, APHA, WEF	700	
	Total				**26,300**	
	price package				**15,000**	
	Sample size requirements : 8 bottle x 500 ml in closed container					
	[A] : Test is conducted by Biochemical and Microbiological Laboratory MTC.					
Water(TIS.2208-2547)	Contaminants	-		TIS.2208-2547	200	
	Odor	-		TIS.2208-2547	200	
	Taste	-		TIS.2208-2547	200	
	pH	4.0-10.00	✓	TIS.2208-2547	200	
	Color	-		TIS.2208-2547	200	
	Turbidity	-		TIS.2208-2547	700	
	Iron	0.2-3.0 mg/dm^3	✓	TIS.2208-2547	700	
	Manganese	0.1-3.0 mg/dm^3	✓	TIS.2208-2547	700	
	Copper	0.1-3.0 mg/dm^3	✓	TIS.2208-2547	700	
	Zinc	0.02 to 0.50 mg/dm^3	✓	TIS.2208-2547	700	
	Lead	0.2-3.0 mg/dm^3	✓	TIS.2208-2547	1,200	
	Selenium	-		TIS.2208-2547	700	
	Cadmium	0.03-0.50 mg/dm^3	✓	TIS.2208-2547	700	
	Barium	-		TIS.2208-2547	1,000	
	Mercury	-		TIS.2208-2547	1,000	
	Arsenic	0.005 to 0.050 mg/dm^3	✓	TIS.2208-2547	700	
	Chromium	-		TIS.2208-2547	700	
	Hardness (as $CaCO_3$)	10-300 mg/L	✓	TIS.2208-2547	700	
	Linear alkyl benzenesulfonate	-		TIS.2208-2547	1,500	
	Total Dissolved Solids	-		TIS.2208-2547	600	

Price list
Analytical Chemistry Laboratory (ACL)

ITEMS	PARAMETER	RANGE	ACCREDITATION (ISO/IEC 17025)	METHOD/EQUIPMENTS	PRICE (BAHT)	REMARK
	Sulfate	-		TIS.2208-2547	800	
	Chloride	-		TIS.2208-2547	1,500	
	Fluoride	-		TIS.2208-2547	1,500	
	Nitrate	-		TIS.2208-2547	1,500	
	Sulfide (as Hydrogen sulfide)	-		TIS.2208-2547	1,500	
	Sodium chloride	-		TIS.2208-2547	1,500	
	Magnesium	-		TIS.2208-2547	700	
	Cyanide	-		TIS.2208-2547	1,500	
	Phenolic substance	-		TIS.2208-2547	1,500	
	Free carbon dioxide				-	NA
	Bicarbonate	-		TIS.2208-2547	700	
	Salmonella spp. [A]	-		AWWA, APHA, WEF	700	
	Staphylococcus aureus [A]	-		AWWA, APHA, WEF	700	
	Escherichia coli [A]	-		AWWA, APHA, WEF	700	
	Coliforms [A,]	-		AWWA, APHA, WEF	700	
	Clostridium perfringens [A]	-		AWWA, APHA, WEF	700	
	Total				**29,500**	
	price package				**15,000**	
	Sample size requirements : 8 bottle x 500 ml in closed container					
	[A] : Test is conducted by Biochemical and Microbiological Laboratory MTC.					
Water Supply Quality of the Provincial Waterworks Authority	**1. Physical Properties**					
	Colour , Pt-Co unit	-		AWWA	400	
	Taste	-		AWWA	200	
	Odour	-		AWWA	200	
	Turbidity , NTU	-		AWWA	200	
	pH	4.0-10.00	✓	AWWA	200	
	2. Chemical Properties (mg/l)					
	Total dissolved solids	-		AWWA	400	
	Iron	0.2-3.0 mg/dm^3	✓	AWWA	700	
	Manganese	0.1-3.0 mg/dm^3	✓	AWWA	700	
	Copper	0.1-3.0 mg/dm^3	✓	AWWA	700	
	Zinc	0.02 to 0.50 mg/dm^3	✓	AWWA	700	
	Total hardness (as $CaCO_3$)	0.005 to 0.050 mg/dm^3	✓	AWWA	400	

Price list
Analytical Chemistry Laboratory (ACL)

ITEMS	PARAMETER	RANGE	ACCREDITATION (ISO/IEC 17025)	METHOD/EQUIPMENTS	PRICE (BAHT)	REMARK
	Sulfate	-		AWWA	800	
	Chloride	-		AWWA	1,500	
	Fluoride	-		AWWA	1,500	
	NO3 (as NO_3)	-		AWWA	1,500	
	3. Toxicity Properties : Heavy Metal (mg/l)					
	Mercury	-		AWWA	1,000	
	Lead	0.2-3.0 mg/dm^3	✓	AWWA	700	
	Arsenic	0.005 to 0.050 mg/dm^3	✓	AWWA	1,000	
	Selenium	-		AWWA	1,200	
	Chromium	-		AWWA	700	
	Cyanide	-		AWWA	1,000	
	Cadmium	-		AWWA	700	
	Barium	-		AWWA	700	
	4. Microbiological Properties (per 100 ml.)					
	Total Coliform Bacteria[A]	-		AWWA, APHA, WEF	400	
	E. coli [A]	-		AWWA, APHA, WEF	700	
	Staphylococcus aureus [A]	-		AWWA, APHA, WEF	700	
	Salmonella [A]	-		AWWA, APHA, WEF	700	
	Clostridium perfringens [A]	-		AWWA, APHA, WEF	700	
	Total				**20,300**	
	price package				**15,000**	
	Sample size requirements : 8 bottle x 500 ml in closed container					
	[A] : Test is conducted by Biochemical and Microbiological Laboratory MTC.					
Quality of Effluent Water from Factories and Industrial Estates	pH value	4.0-10.00	✓	AWWA	200	
	Total Dissolved Solids (TDS)	-		AWWA	600	
	Suspended Solids	-		AWWA	400	
	Temperature				-	NA
	colour and odour	-		AWWA	400	
	Sulfide (as H2S)	-		AWWA	1,500	
	Cyanide (as HCN)	-		AWWA	1,500	
	Fat, Oil and Grease	-		AWWA	600	

Price list
Analytical Chemistry Laboratory (ACL)

ITEMS	PARAMETER	RANGE	ACCREDITATION (ISO/IEC 17025)	METHOD/EQUIPMENTS	PRICE (BAHT)	REMARK
	Formaldehyde	-		AWWA	1,500	
	Phenols	-		AWWA	1,500	
	Free Chlorine	-		AWWA	1,500	
	Pesticides					
	-Organochlorines[A]	-		AWWA	3,500	
	-Organophosphate[A]	-		AWWA	3,500	
	-Carbamate	-		AWWA	3,500	
	Biochemical Oxygen Demand	-		AWWA	400	
	Total Kjeldahl Nitrogen	-		AWWA	1,000	
	Chemical Oxygen Demand	-		AWWA	400	
	Heavy Metal					
	Zinc	0.02 to 0.50 mg/dm^3	✓	AWWA	700	
	Chromium Hexavalent	-		AWWA	2,000	
	Chromium Trivalent	-		AWWA	2,000	
	Copper	0.1-3.0 mg/dm^3	✓	AWWA	700	
	Cadmium	-		AWWA	700	
	Barium	-		AWWA	700	
	Lead	0.2-3.0 mg/dm^3	✓	AWWA	700	
	Nickel	-		AWWA	700	
	Manganese	0.1-3.0 mg/dm^3	✓	AWWA	700	
	Arsenic	0.005 to 0.050 mg/dm^3	✓	AWWA	1,000	
	Selenium	-		AWWA	1,200	
	Mercury	-		AWWA	1,000	
	Total				**34,100**	
	price package				**15,000**	
	Sample size requirements : 8 bottle x 500 ml in closed container					
	[A] : Test is conducted by Biochemical and Microbiological Laboratory MTC.					
Poly Aluminium Chloride	Appearance	-		In-house test method based on TIS.2150-2546	100	
	Manganese	-		In-house test method based on TIS.2150-2546	1,000	
	Cadmium	-		In-house test method based on TIS.2150-2546	1,000	
	Lead	-		In-house test method based on TIS.2150-2546	1,500	

Price list
Analytical Chemistry Laboratory (ACL)

ITEMS	PARAMETER	RANGE	ACCREDITATION (ISO/IEC 17025)	METHOD/EQUIPMENTS	PRICE (BAHT)	REMARK
	Chromium	-		In-house test method based on TIS.2150-2546	1,000	
	Mercury	-		In-house test method based on TIS.2150-2546	1,500	
	Arsenic	-		In-house test method based on TIS.2150-2546	1,500	
	Ammonium salt (as nitrogen)	-		In-house test method based on TIS.2150-2546	1,500	
	Iron	-		In-house test method based on TIS.2150-2546	1,000	
	Al_2O_3	-		In-house test method based on TIS.2150-2546	1,000	
	Sulfate	-		In-house test method based on TIS.2150-2546	1,000	
	Basicity	-		In-house test method based on TIS.2150-2546	600	
	pH	-		In-house test method based on TIS.2150-2546	400	
	Total				**13,100**	
	Sample size requirements : 3 x 100 g in closed container					
Alum	Specific gravity at 30°C	-		In-house test method based on TIS.165-2542	600	
	Acidity and Basicity	-		In-house test method based on TIS.165-2542	400	
	Insolubility	-		In-house test method based on TIS.165-2542	600	
	Ammonium salt	0.50-7.00 % (w/w)	✓	In-house test method based on TIS.165-2542	600	
	Al_2O_3	0.10-0.40 % (w/w)	✓	In-house test method based on TIS.165-2542	1,000	
	Iron	-		In-house test method based on TIS.165-2542	1,000	
	Arsenic (as As_2O_3)	-		In-house test method based on TIS.165-2542	1,500	
	Manganese	-		In-house test method based on TIS.165-2542	1,000	
	Lead	-		In-house test method based on TIS.165-2542	1,500	

Price list
Analytical Chemistry Laboratory (ACL)

ITEMS	PARAMETER	RANGE	ACCREDITATION (ISO/IEC 17025)	METHOD/EQUIPMENTS	PRICE (BAHT)	REMARK
	Cadmium	-		In-house test method based on TIS.165-2542	1,000	
	Chromium	-		In-house test method based on TIS.165-2542	1,000	
	Mercury	-		In-house test method based on TIS.165-2542	1,500	
	Total				**11,700**	
	Sample size requirements : 3 x 100 g in closed container					
Paints Vanishes and related materials	**Physical Properties**	-				
	Appearance	-		TIS.	100	
	Colors	-		TIS.285 (48)	400	
	Pigment	-		TIS.285 (34)	700	
	Finess	-		TIS.285 (8)	300	
	Hiding power	-		TIS.285 (16)	800	
	Viscosity	-		TIS.285 (49)	600	
	Flash point	10-250 °C	✓	TIS.285 (14),ASTM D 7093	800	
	Denity	-		TIS.285 (7)	600	
	Hard grey	-		TIS.285 (10)	300	
	Gloss at 60 °C	≥80 %	✓	TIS.285 (17),ISO 2813:1994	600	
	Condition in packaging	-		TIS.285 (11)	300	
	Spraying properties	-		TIS.285 (24)	600	
	Total time of dried paint	-		-	300	
	Touch dry	-		TIS.285 (9)	300	
	Characteristic of film after brushing or rolling	-		TIS.285 (24)	600	
	Characteristic of film coating	-		TIS.285 (24)	600	
	Durability properties	-		-	600	
	Spraying properties	-		TIS.285 (24)	600	
	Relesing properties/Color changing after dried with oven	-		-	600	
	Color of dried film	-		-	600	
	Characteristic of dried film after application	-		-	600	
	Packing	-		-	100	
	Application testing	-		-	600	
	Bending resistance	-		TIS.285 (19)	600	
	Heat resistance	-		-	600	
	Water resistance	-		TIS.285 (22)	600	

Price list
Analytical Chemistry Laboratory (ACL)

ITEMS	PARAMETER	RANGE	ACCREDITATION (ISO/IEC 17025)	METHOD/EQUIPMENTS	PRICE (BAHT)	REMARK
	Boiling water resistance	-		TIS.285 (22)	600	
	Oil resistance	-		TIS.285 (23)	600	
	Acid resistance	-		-	600	
	Alkali resistance	-		TIS.285 (23)	600	
	Alcohol resistance	-		TIS.285 (23)	600	
	Scratch resistance	-		TIS.285 (32)	600	
	Abrasion resistance	-		ASTM D 968	600	
	Scrub resistance	-		ASTM D 2486	600	
	Adhesion	-		ASTM D 4541	1,500	
	Stability after mixing	-		-	600	
	Impact resistance	-		ASTM D2794	600	
	QUV	-		ASTM G154-06	1,250	1,250 Bath/168 hr, and plus 20 baht/hr from 168th hrs.
	Salt spray test	-		ASTM B117	90/hr.	
	Solvent resistance	-		ASTM D4752-03	1,500	
	Heat resistance	-		ISO3248	1,500	
	Pull off test	-		ASTM D3359	1,500	
	Storage stability	-		TIS.285 (12)	400	
	Storage stability (accelerated condition)	-		TIS.285 (12)	1,000	
	Efficacy test against microalgae	-		TIS.2321-2549	3,000	
	Fungal resistance	-		TIS-272-2549,TIS.2321-2550	1,500	
	Chemical Properties			-		
	Non-volatile matter	-		TIS.285 (6)	500	
	Prohibited solvents	-		TIS.520	1,500	
	Volatile organic compounds (VOCs)	0.0050-0.0500 g/g	✓	ISO 11890	3,600	(Y: VOCs in Soluble paint)
	Phthalates	-		CPSC-CH-C1001-09.03	6,000	
	Aromatic hydrocarbon (VACs)	-		Inhouse method by GCMS	6,000	
	Laed	0.001-5.000 % (by weight of non volatile matter)	✓	TIS.285 (27),ASTM D3335	1,500	(Y: Pb in Paint,varnish and relate material)
	Mercury	-		TIS.285 (28), ISO3856-7	1,500	
	Cadmium	0.001-5.000 % (by weight of non volatile matter)	✓	TIS.285 (27),ASTM D3335	1,000	(Y: Cr in Paint,varnish and relate material)
	Chromium hexavalent	0.001-0.050 % ((by weight of non volatile matter)	✓	ISO 3856-5	2,000	(Y: Cr+6 in Paint,varnish and relate material refer ISO 3856/5 method)

Price list
Analytical Chemistry Laboratory (ACL)

ITEMS	PARAMETER	RANGE	ACCREDITATION (ISO/IEC 17025)	METHOD/EQUIPMENTS	PRICE (BAHT)	REMARK
	Chromium hexavalent	5-100 mg/kg of non volatile matter	✓	In-house test method based on IEC 62321	2,000	(Y: Cr+6 in Paint,varnish and relate material refer IEC62321 method)
	Tin	-		ASTM D 3717 by AAS	1,000	
	Arsenic	-		ASTM D 3717 by HG-AAS	1,500	
	Antimony	-		ASTM D 3717 by AAS	1,500	
	Aluminium powder	-		TIS.285 (33)	1,000	
	Sample size requirements : 5 x 1 L in closed container					
Paints(green label)	Gloss at 60 °C	-		Gloss meter	600	
	VOCs	0.0050-0.0500 g/g	✓	ISO 11890-2	3,600	(Y: VOCs in Soluble paint)
	VOCs	0.0050-0.0500 g/g	✓	ISO 11890-1	5,600	(Y: VOCs in Soluble paint)
	Laed	0.001-5.000 % (by weight of non volatile matter)	✓	ISO 3856-1	1,500	(Y: Pb in Paint,varnish and relate material)
	Mercury	-		ISO 3856-7	1,500	
	Cadmium	0.001-5.000 % (by weight of non volatile matter)	✓	ISO 3856-4	2,000	(Y: Cr+6 in Paint,varnish and relate material refer ISO 3856/5 method)
	Chromium Hexavalent	0.001-0.050 % ((by weight of non volatile matter)	✓	ISO 3856-5	1,000	
	Tin	-		ASTM D 3717 by AAS	1,000	
	Arsenic	-		ASTM D 3717 by HG-AAS	1,500	
	Antimony	-		ASTM D 3717 by AAS	1,500	
	Aromatic hydrocarbon (VACs)	-		GCMS	6,000	
	Halogenated solvent	-		GCMS	3,000	
	Formaldehyde	-		HPLC	1,500	
	Total				**20,500**	
	Sample size requirements : 5 x 1 L in closed container					
Paints (TIS.)	TIS.272-2549 : Emulsion paints for general purposes Interior	-		TIS.272-2549	8,950	
	TIS.272-2549 : Emulsion paints for general purposes Exterior	-		TIS.272-2549	13,650	
	TIS.327-2553 : Alkyd gloss enamel	-		TIS.327-2553	17,350	
	TIS.328-2551 : Aluminium priming paints for woodwork	-		TIS.328-2551	14,800	
	TIS.357-2551 : Priming paints for wood	-		TIS.357-2551	14,300	
	TIS.390-2552 : Aluminium paints	-		TIS.390-2552	14,150	

Price list
Analytical Chemistry Laboratory (ACL)

ITEMS	PARAMETER	RANGE	ACCREDITATION (ISO/IEC 17025)	METHOD/EQUIPMENTS	PRICE (BAHT)	REMARK
	TIS.401-2525 : Zinc chromate primer	-		TIS.401-2525	3,700	
	TIS.415-2551 :Traffic Paint	-		TIS.415-2551	29,400	
	TIS.468-2550 : White spirit for paint and varnish	-		TIS.468-2550	5,400	
	TIS.469-2526 : Cement paint	-		TIS.469-2526	5,350	
	TIS.496-2553 : Lacquer Thinner	-		TIS.496-2553	4,850	
	TIS.520-2553 : Nitrocellulose Lacquer Thinner	-		TIS.520-2553	7,850	
	TIS.561-2549 : Nitrocellulose lacquer enamel	-		TIS.561-2549	6,650	
	TIS.562-2549 : Clear lacquer nitrocellulose	-		TIS.562-2549	5,200	
	TIS.607-2550 : Vinyl Antifouling Paint	-		TIS.607-2550	12,300	
	TIS.608-2529 : Automotive nitrocellulose lacquer: Top coat	-		TIS.608-2529	3,700	
	TIS.609-2529 : Automotive nitrocellulose lacquer : Primer surfacer or surfacer	-		TIS.609-2529	2,600	
	TIS.610-2552 : Paint Remover	-		TIS.610-2552	8,700	
	TIS.618-2529 : Binders for paints and varnishes: Alkyd resins	-		TIS.618-2529	1,650	
	TIS.632-2551 : Polyvinyl chloride resin	-		TIS.632-2551	13,000	
	TIS.691-2547 : Epoxy paint for general purposes	-		TIS.691-2547	11,500	
	TIS.727-2551 : Coal tar epoxy paints	-		TIS.727-2551	15,050	
	TIS.734-2530 : Amino/alkyd resin baking enamel	-		TIS.734-2530	4,050	
	TIS.751-2531 : Automotive lacquer putty: Nitrocellulose	-		TIS.751-2531	1,500	
	TIS.834-2531 : Automotive putty: Polyester	-		TIS.834-2531	1,650	
	TIS.883-2532 : Acrylic resin baking enamel	-		TIS.883-2532	4,450	
	TIS.1005-2548 : Semigloss enamel	-		TIS.1005-2548	13,500	
	TIS.1048-2551 : Epoxy coatings for steel potable water pipelines	-		TIS.1048-2551	12,400	
	TIS.1066-2534 : Alkyd resin varnish	-		TIS.1066-2534	4,850	
	TIS.1069-2552 : Colourants for plastics for food contact use	-		TIS.1069-2552	14,600	

Price list
Analytical Chemistry Laboratory (ACL)

ITEMS	PARAMETER	RANGE	ACCREDITATION (ISO/IEC 17025)	METHOD/EQUIPMENTS	PRICE (BAHT)	REMARK
	TIS.1092-2548 : Etching primer	-		TIS.1092-2548	4,450	
	TIS.1097-2554 : Acrylic coating used in cement roof tile	-		TIS.1097-2554	27,750	
	TIS.1123-2555 : Masonry primer	-		TIS.1123-2555	12,800	
	TIS.1177-2536 : Primer-conditioner for chalking painted masonry surfaces	-		TIS.1177-2536	2,650	
	TIS.1233-2553 : Binders for paints and varnishes: Amino resins	-		TIS.1233-2553	4,200	
	TIS.1307-2552 : Zinc rich primer: Inorganic vehicle	-		TIS.1307-2552	12,165	
	TIS.1405-2552 : Heat resistant aluminium paint	-		TIS.1405-2552	17,000	
	TIS.1406-2553 : Flat alkyd enamel paints	-		TIS.1406-2553	18,950	
	TIS.1415-2552 : Zinc rich primer: Organic vehicle	-		TIS.1415-2552	13,065	
	TIS.1512-2541 : Water-based wood stain	-		TIS.1512-2541	7,100	
	TIS.1513-2541 : Oil-based wood stain	-		TIS.1513-2541	4,250	
	TIS.2151-2555 : General purpose two-package polyurethane coating	-		TIS.2151-2555	23,250	
	TIS.2215-2548 : High-built epoxy paint	-		TIS.2215-2548	11,450	
	TIS.2241-2548 : Acrylic resin enamel	-		TIS.2241-2548	7,300	
	TIS.2321-2549 : Weather resistant emulsion paints Interior	-		TIS.2321-2549	8,950	
	TIS.2321-2549 : Weather resistant emulsion paints Exterior	-		TIS.2321-2549	29,850	
	TIS.2364-2551 : Acrylic resin varnish	-		TIS.2364-2551	10,900	
	TIS.2386-2551 : Anticorrosive zinc phosphate priming paint	-		TIS.2386-2551	20,950	
	TIS.2387-2551 : Anticorrosive prining paint	-		TIS.2387-2551	14,900	
	TIS.2442-2552 : Intumescent fire resistive emulsion paints	-		TIS.2442-2552	76,250	
	TIS.2514-2553 : Solar heat reductive emulsion paints	-		TIS.2514-2553	15,950	

Price list
Analytical Chemistry Laboratory (ACL)

ITEMS	PARAMETER	RANGE	ACCREDITATION (ISO/IEC 17025)	METHOD/EQUIPMENTS	PRICE (BAHT)	REMARK
	TIS.2515-2553 : Water-borne gloss enamel	-		TIS.2515-2553	17,850	
	TIS.2529-2553 : Water borne traffic paint	-		TIS.2529-2553	37,385	
	Sample size requirements : 8 x 1 L in closed container					
	These packages are price of TISI					

Remark :

✓ **: This test is ISO/IEC 17025 accredited**

NA : Not available