

Appendix A

Cosmetic and environmental samples

Table A1

List of cosmetic samples and suppliers

No.	Name	Type	Suppliers	Appearances	Ingredients
1	Revitalift milky foam	Facial foam	L'ORÉAL (Thailand), Bangkok	White liquid	BHA, Glycerin, Sodium chloride, Titanium dioxide, MP, EP, PP, BP, etc.
2	Gentle cleansing milk	Cleansing lotion	L'ORÉAL (Thailand), Bangkok	White liquid	Glycerin, Paraffinum liquidum, Stearyl alcohol, MP, PP, etc.
3	Revitalift aqua-milky toner	Toner	L'ORÉAL (Thailand), Bangkok	White liquid	Glycerin, Alcohol, Dipropylene glycol, Sodium lauroyl glutamate, MP, EP, PP, BP, etc.
4	Skin lightening cream	Facial cream	Unilever (Thailand) Trading Ltd., Bangkok	Pink cream	Ethylhexyl methoxy cinnamate, Glycerin, Nicotinamide, Cetyl alcohol, MP, PP, etc.
5	Hand & Nail lotion	Hand and nail lotion	Unilever (Thailand) Trading Ltd., Bangkok	Pink cream	Glycerin, Stearic acid, Paraffinum liquidum, Lactic acid, MP, PP, etc.
6	Watsons body cream	Body lotion	Gagua Lab Ltd., Pathum Thani	Orange cream	Vitamin E, Mineral oil, Titanium dioxide, Petrolatum, Cetyl alcohol, MP, PP, etc.
7	Watsons milk yoghurt body scrub	Body scrub	S&J International Enterprises Pub. Co., Ltd., Chonburi	White cream with brown scrub bead	Glycerin, Stearic acid, Paraffinum liquidum, Cetearyl alcohol, MP, PP, etc.
8	Firming pre-holiday balm	Body lotion	Boot Retail (Thailand), Bangkok	Light yellow liquid	Butylene glycol, Glycerin, Paraffinum liquidum, Citric acid, MP, PP, etc.
9	Dry skin relief moisture lotion	Body lotion	Revlon (Thailand), Bangkok	White liquid	Propylene glycol, Mineral oil, Isopropyl palmilate, BHA, MP, PP, etc.

No.	Name	Type	Suppliers	Appearances	Ingredients
10	Whitening immediate sun protection 5 in 1 (SPF30, PA++)	Body lotion	Beiersdorf Ltd., Samut Prakan	White liquid	Ethylhexyl methoxy cinnamate, Glycerin, Cetyl alcohol, BHT, MP, EP, PP, etc.
11	-	Soap	-	White solid	-
12	Herbal soap	Soap	กระต่ายน้อยชมจันทร์, Pathum Thani	White solid	Carrot extract, Honey, Milk, Herbs
13	Herbal soap	Soap	อัญมณี, Saraburi	Light brown solid	ทองพันชั่ง, ขมิ้นชัน, มะคำดีควาย และเหงือกปลาหมอ
14	Herbal soap	Soap	ดอกปลาลมอคู่	Light brown solid	Mangosteen peel extract
15	Herbal soap	Soap	ดอกปลาลมอคู่	Yellow solid	Curcuma extract
16	Orange honey shower gel	Shower gel	ร้านสมุนไพรคุณยายปลั่ง, Ayutthaya	Brown gel	ผิวส้ม, ว่านนางคำ, มะขามป้อม, น้ำผึ้งป่า และสมุนไพรอื่นๆ
17	Herbal shower gel	Shower gel	กลุ่มวิสาหกิจชุมชน, Sing Buri	Brown gel	กวาวเครือขาว และน้ำผึ้ง
18	IC CMU 1	Shower gel	Chiang Mai University, Chiang Mai	Violet gel	-
19	IC CMU 2	Shower gel	Chiang Mai University, Chiang Mai	Light violet gel	-
20	Turmeric liquid soap	Shower gel	Abhaibhubejhr, Parchin Buri	Yellow gel	Turmeric extract, Sodium lauryl ether sulfate, Refatting agent, Glycerin
21	Papaya shower gel	Shower gel	วิสาหกิจชุมชนสายบัว, Bangkok	Orange gel	Papaya, Fragrance, Triethanolamine lauryl sulphate

No.	Name	Type	Suppliers	Appearances	Ingredients
22	Spa cleanser lavender & Thai ginger	Shower gel	De Gasia, Burirum	Brown gel	Evening primrose, Eucalyptus, Grape seed oil, Gingko, Macchadamia oil, Vitamin E, Ginger, Ginseng, Aloe vera, Tea tree oil
23	Herbal shower gel	Shower gel	ศศิมาสมนไพร, Pathum Thani	Brown gel	ใบบัวบก, ตำลึง, ผักบุ้งไทย และสมุนไพรอื่นๆ
24	Honey & Turmeric shower cream	Shower gel	Wanthai, Bangkok	Yellow gel	Honey, Turmeric, Vitamin E
25	Herbal shower gel	Shower gel	Khaokho Talaypu, Phetchabun	White gel	Potassium soap of coconut oil, Passion fruit extract
26	Tomato & Curcuma liquid soap	Shower gel	Napalai, Nakhon Pathom	Brown gel	Tomato, Curcuma, Vitamin A and Vitamin C
27	Aloe vera & Rice bran oil liquid soap	Shower gel	ใบवान, Bangkok	Colorless liquid	Citric acid, Aloe vera, Rice bran oil, Vitamin E, Fragrance
28	Tamarind herbal cleansing cream	Facial foam	Abhaibhubejhr, Parchin Buri	Dark brown cream	Tamarind, Milk, Honey, Turmeric
29	Tamarind herbal cleansing cream	Facial foam	พิมพ์กานต์, Samut Prakan	Brown cream	Tamarind, Collagen, Coenzyme Q-10, Milk, Honey, Turmeric
30	Honey liquid soap	Facial foam	วิทยาลัยการแพทย์แผนไทย, Pathum Thani	Brown liquid	Honey
31	Hand liquid soap	Hand soap	Abhaibhubejhr, Parchin Buri	Brown liquid	Mangosteen peel extract
32	Herbal hair shampoo	Shampoo	จินดา, Pathum Thani	Green liquid	Litsea glutinosa extract, Sodium lauryl sulfate, Cocamido, etc.

No.	Name	Type	Suppliers	Appearances	Ingredients
33	Herbal shampoo	Shampoo	Rajamangala University of Technology Thanyaburi, Pathum Thani	Yellow liquid	Sodium lauryl ether sulfate, Bronidox L, สารสกัดจากสมุนไพร บอระเพ็ด
34	Herbal shampoo	Shampoo	ธนกร, Bangkok	Violet liquid	Si Nin rice
35	Butterfly pea shampoo	Shampoo	Abhaibhubejhr, Parchin Buri	Blue-violet liquid	Butterfly pea extract, Sodium laureth sulfate, Coconut fatty acid, Diethanolamide
36	Soap nut shampoo	Shampoo	วิสาหกิจชุมชน สายบัว, Bangkok	Navy blue liquid	Soap nut, Lanolin, Sodium lauryl ether sulfate, Irgasan
37	Ginger & Menthol shampoo	Shampoo	วิสาหกิจชุมชน สายบัว, Bangkok	Blue liquid	Ginger, Menthol, Lanolin, Sodium lauryl ether sulfate, Irgasan
38	Herbal shampoo	Shampoo	ศศิมาสมุนไพร, Pathum Thani	Brown liquid	บัวบก, ดอกอัญชัน, ว่านหางจระเข้ และสมุนไพร อื่นๆ
39	Herbal shampoo	Shampoo	ธนกร, Bangkok	Dark green liquid	แก่นพญามือเหล็ก และ รากทองพันชั่ง
40	Clitorea & Vitamin E shampoo	Shampoo	คงคาเอิร์ป, Nakhon Pathom	Violet liquid	Clitorea, Vitamin E
41	Kaffir lime & Moss shampoo	Shampoo	Wanthai, Bangkok	Yellow liquid	Kaffir lime, Moss, Wheat germ oil, Protein
42	Herbal shampoo	Shampoo	Sabunnga, Nonthaburi	Green liquid	Kaffir lime extract, Soap nut, Sodium lauryl sulphate, Sodium chloride
43	Butterfly pea shampoo	Shampoo	Thanyaporn herbs, Samut Prakan	Violet liquid	Butterfly pea extract, Sodium lauryl sulphate, Citric acid, Cocamidopropyl betain, Fragrance
44	Herbal shampoo	Shampoo	Wang Prom, Nakhon Pathom	Brown liquid	Sodium lauryl ether sulphate, Sodium chloride, Bronidox L

No.	Name	Type	Suppliers	Appearances	Ingredients
45	Sesame oil & Olive oil conditioner	Conditioner	วิสาหกิจชุมชน สายบัว, Bangkok	White liquid	Sesame oil, Olive oil, Cetyl stearyl alcohol, Coconut monoethanolamine
46	Milky conditioner	Conditioner	De Gasia, Burirum	White cream	Collagen, Aloe vera, Soap nut, Sesame oil, Vitamin E, Ginger, Glycerin
47	Herbal conditioner	Conditioner	ศศิมาสมุนไพร, Pathum Thani	Brown cream	บัวบก, ดอกอัญชัน และสมุนไพรอื่นๆ
48	Aloe vera conditioner	Conditioner	Wanthai, Bangkok	White cream	Aloe vera, Protein, Vitamin E, Cocamilds
49	Young rice milk sunscreen cream (SPF30)	Facial cream	มายเวย์	White cream	Young rice milk extract, Vitamin E, Evening primrose, Aloe vera, Honey
50	Young rice milk night cream	Facial cream	มายเวย์	White cream	Young rice milk extract, Vitamin E, Honey, AHA, Herbs
51	Whitening cream (SPF15)	Facial cream	ปาริชาติ	Brown cream	มะขามป้อม
52	Sunscreen cream (SPF60)	Facial cream	วิทยาลัย การแพทย์แผน ไทย, Pathum Thani	White cream	-
53	Snow lotus cream	Facial cream	U. B. Chemical Industry, Bangkok	White cream	Poria cocos extract, Cetyl alcohol, Glyceryl stearate, MP, EP, PP, BP, etc.
54	Whitening night cream	Facial cream	มายเวย์	Light yellow cream	Young rice milk extract, Vitamin E, Honey, AHA, Herbs
55	Aloe vera gel	Facial cream	Khaokho Talaypu, Phetchabun	Colorless liquid with gelatin	100% Aloe vera
56	Star fruit lotion	Facial cream	กลุ่มรักษ์ สมุนไพรไทย, Bangkok	Brown liquid	น้ำสกัดผิวภาพมะเฟืองและขมิ้น

No.	Name	Type	Suppliers	Appearances	Ingredients
57	Facial herbal mask	Facial mask	P. N. C. Spa and health goods product, Phetchaburi	Light yellow powder	สมุนไพรนางพญาหน้าขาว ทานาคา ผงไหม ว่านมหาเสน่ห์ และสมุนไพรอื่นๆ
58	Curcuma powder	Body scrub	ชุมชนสีมาโคต, Nakhon Rajasima	Yellow powder	Curcuma
59	Tamarind body scrub	Body scrub	จรรทวารณ, Bangkok	Light brown cream with dark brown scrub bead	น้ำมะขาม และเปลือกวอนนัท
60	Herbal body lotion	Body lotion	กลุ่มวิสาหกิจชุมชน, Sing Buri	White cream	กาวเครือขาว และน้ำผึ้ง
61	Carrot body lotion	Body lotion	จันทร์วรินทร์, Bangkok	White cream	Carrot extract
62	Herbal moisture & sunscreen	Body lotion	Nonthaburi	White cream	สารสกัดกาวเครือและมะม่วง, น้ำผึ้ง, วิตามินอี
63	Lilavadee oil	Body lotion	ศศิมาสุมไพร, Pathum Thani	Yellow oil	Oil, Perfume, Herbs
64	Armpit whitening cream	Armpit cream	จิ่งวัฒนา กรุ๊ป, Bangkok	White cream	Tocopheryl acetate, Mulberry root extract

Table A2
The pictures of cosmetic samples

No.	Samples		No.	Samples	
1			2		
3			4		
5			6		
7			8		

No.	Samples		No.	Samples	
9			10		
11			12		
13			14		
15			16		
17			18		

No.	Samples		No.	Samples	
19			20		
21			22		
23			24		
25			26		
27			28		

No.	Samples		No.	Samples	
29			30		
31			32		
33			34		
35			36		
37			38		

No.	Samples		No.	Samples	
39			40		
41			42		
43			44		
45			46		
47			48		

No.	Samples		No.	Samples	
49			50		
51			52		
53			54		
55			56		
57			58		

No.	Samples		No.	Samples	
59			60		
61			62		
63			64		

Table A3
List of environmental samples and sources

Sample number	Type	Sources
Soil-1		Longan fruit garden no.1, Tambon San Pee
Soil-2		Seua, Muang, Chiang Mai
Soil-3		Longan fruit garden no.2, Tambon San Pee
Soil-4		Seua, Muang, Chiang Mai
Soil-5		Longan fruit garden no.3, Tambon San Pee
Soil-6		Seua, Muang, Chiang Mai
Soil-7		Moo 5, Tambon Chomphu, Saraphi, Chiang Mai
Soil-8		Moo 6, Tambon Chomphu, Saraphi, Chiang Mai
Soil-9		Moo 9, Tambon Chomphu, Saraphi, Chiang Mai
Soil-10		Tambon Buak Khang, Sankampang, Chiang Mai
Water-1	water from irrigation	Longan fruit garden no.1, Tambon San Pee
Water-2	ground water	Seua, Muang, Chiang Mai
Water-3	ground water	Longan fruit garden no.2, Tambon San Pee
		Seua, Muang, Chiang Mai
Water-4	filtered ground water	Longan fruit garden no.3, Tambon San Pee
		Seua, Muang, Chiang Mai
Water-5	drinking water	7-Eleven (Convenience store)
Water-6	tap water	Learning Center 5 (LC.5), Faculty of Science and Technology, Thammasat University

Table A4
The pictures of environmental samples

No.	Samples		No.	Samples	
Soil-1			Soil-2		
Soil-3			Soil-4		
Soil-5			Soil-6		
Soil-7			Soil-8		
Soil-9			Soil-10		

No.	Samples		No.	Samples	
Water-1			Water-2		
Water-3			Water-4		
Water-5			Water-6		