

List of Figures

Figure		Page
2.1	The 1,1-diphenyl-2-picrylhydrazyl radical (DPPH [•]) scavenging assay	7
2.2	Steps of the inflammatory response	8
2.3	The cells and mediators involved in a local acute inflammatory..... response	11
2.4	The isoforms of nitric oxide synthases	13
2.5	Implication of iNOS-derived NO in various human diseases.....	14
2.6	The reaction of NO synthesis from L-arginine	15
2.7	The most commonly employed diazotization reaction.....	16
2.8	Mechanism of allergic reaction.....	21
2.9	The mechanism of IgE mediated allergic reaction.....	22
2.10	<i>Amomum testaceum</i> Ridl.	24
2.11	Fruit of <i>Amomum testaceum</i> Ridl.	24
2.12	<i>Anethum graveolens</i> L.	26
2.13	Fruit of <i>Anethum graveolens</i> L.	26
2.14	<i>Angelica dahurica</i> Benth.	28
2.15	Root of <i>Angelica dahurica</i> Benth.....	28
2.16	<i>Angelica sinensis</i> (Oliv.) Diels.....	30
2.17	Root of <i>Angelica sinensis</i> (Oliv.) Diels	30
2.18	<i>Artemisia annua</i> L.	32
2.19	All part of <i>Artemisia annua</i> L.	32
2.20	<i>Atractylodes lancea</i> (Thunb.) DC.	34
2.21	Rhizome of <i>Atractylodes lancea</i> (Thunb.) DC.	34
2.22	<i>Cuminum cyminum</i> L.....	36
2.23	Fruit of <i>Cuminum cyminum</i> L.	36
2.24	<i>Dracaena loureiri</i> Gagnep.....	38
2.25	Stem of <i>Dracaena loureiri</i> Gagnep.....	38
2.26	<i>Foeniculum vulgare</i> Mill. var. <i>dulce</i> (Mill.) Thell.	40
2.27	Fruit of <i>Foeniculum vulgare</i> Mill. var. <i>dulce</i> (Mill.) Thell.	40

List of Figures (Continued)

Figure		Page
2.28	<i>Kaempferia galanga</i> L.....	42
2.29	Rhizome of <i>Kaempferia galanga</i> L.....	42
2.30	<i>Lepidium sativum</i> L.	44
2.31	Seed of <i>Lepidium sativum</i> L.	44
2.32	<i>Ligusticum sinense</i> Oliv. cv. Chuanxiong	46
2.33	Rhizome of <i>Ligusticum sinense</i> Oliv. cv. Chuanxiong	46
2.34	<i>Mammea siamensis</i> Kosterm.	48
2.35	Flower of <i>Mammea siamensis</i> Kosterm.	48
2.36	<i>Mesua ferrea</i> L.....	50
2.37	Flower of <i>Mesua ferrea</i> L.....	50
2.38	<i>Mimusops elengi</i> L.	52
2.39	Flower of <i>Mimusops elengi</i> L.	52
2.40	<i>Myristica fragrans</i> Houtt.	54
2.41	Stem of <i>Myristica fragrans</i> Houtt.	54
2.42	Mace (Aril) of <i>Myristica fragrans</i> Houtt.....	55
2.43	Nutmeg (Seed) of <i>Myristica fragrans</i> Houtt.....	55
2.44	<i>Nelumbo nucifera</i> Gaertn.....	57
2.45	Pollen of <i>Nelumbo nucifera</i> Gaertn.....	57
2.46	<i>Nigella sativa</i> L.	59
2.47	Seed of <i>Nigella sativa</i> L.	59
2.48	<i>Syzygium aromaticum</i> (L.) Merr. et Perry.	61
2.49	Flower of <i>Syzygium aromaticum</i> (L.) Merr. et Perry	61
2.50	Structures of some chemical constituents found in <i>Amomum</i> <i>testaceum</i> L.	118
2.51	Structures of some chemical constituents found in <i>Anethum</i> <i>graveolens</i> L.	118
2.52	Structures of some chemical constituents found in <i>Angelica</i> <i>dahurica</i> Benth.	119

List of Figures (Continued)

Figure		Page
2.53	Structures of some chemical constituents found in <i>Angelica sinensis</i> (Oliv.) Diels	121
2.54	Structures of some chemical constituents found in <i>Artemisia annua</i> L.	123
2.55	Structures of some chemical constituents found in <i>Atractylode lancea</i> (Thunb.) DC.	125
2.56	Structures of some chemical constituents found in <i>Cuminum cyminum</i> L.	127
2.57	Structures of some chemical constituents found in <i>Dracaena loureiri</i> Gagnep.	128
2.58	Structures of some chemical constituents found in <i>Foeniculum vulgare</i> Mill. var. <i>dulce</i> (Mill.) Thell.	128
2.59	Structures of some chemical constituents found in <i>Kaempferia galanga</i> L.	129
2.60	Structures of some chemical constituents found in <i>Lepidium sativum</i> L.	131
2.61	Structures of some chemical constituents found in <i>Ligusticum sinense</i> Oliv. cv. Chuanxiong	131
2.62	Structures of some chemical constituents found in <i>Mammea siamensis</i> Kosterm.	132
2.63	Structures of some chemical constituents found in <i>Mesua ferrea</i> L.	133
2.64	Structures of some chemical constituents found in <i>Mimusops elengi</i> L.	133
2.65	Structures of some chemical constituents found in <i>Myristica fragrans</i> Houtt.	134
2.66	Structures of some chemical constituents found in <i>Nelumbo nucifera</i> Gaertn.	137
2.67	Structures of some chemical constituents found in <i>Nigella sativa</i> L.	139
2.68	Structures of some chemical constituents found in <i>Syzygium aromaticum</i> (L.) Merr. et Perry	140
3.1	Extraction of plant materials	148

List of Figures (Continued)

Figure		Page
4.1	Antioxidant activity of ethanolic extract of Prasaprohyai preparation and its ingredients on DPPH assay	160
4.2	Antioxidant activity of water extract (residue) of Prasaprohyai preparation and its ingredients on DPPH assay	160
4.3	Antioxidant activity of water extract of Prasaprohyai..... preparation and its ingredients on DPPH assay	161
4.4	Concentration of NO production by RAW 264.7 cells stimulated .. with LPS (0-100 µg/ml) for 48 h	163
4.5	IC ₅₀ of ethanolic extracts of Prasaprohyai preparation and its ingredients on NO inhibitory activity using Griess reagent	171
4.6	IC ₅₀ of ethanolic extracts of Prasaprohyai preparation and its ingredients on the release of β-hexosaminidase in RBL-2H3 cells	181