# LAMPIRAN KHUSUS (Special Appendixes)

Indonesian Natural Dyeing Recipes (35 pages)

Index of Scientific - Vernacular Plant Names (4 pages)

Index of Vernacular - Scientific Plant Names (4 pages)

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References (14 pages, 221 titles)

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# MATERIALS LIST OF THE INDONESIAN NATURAL DYEING RECIPES

| 1 | SUMATERA (A) | 1. ACEH (1a-h) | **BLUE** | **COTTON** |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| indigo | Indigofera arrecta Hochst. ex A. Rich | leaves | kaempferitrin | (D;60;45-50) | |
| jepal (?) | | | | | |
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| 2 | SUMATERA (A) | 1. ACEH (1a-h) | **BLACK** | **COTTON** |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| indigo | Indigofera arrecta Hochst. ex A. Rich | leaves | kaempferitrin | (D;60;45-50) | |
| jepal | | | | | |
| lime | | | mineral (Mi) | | |
| pala | Myristica fragrants Houtt. | | ingredient (I) | (I;70) | |
| lengkuas | Alpinia galanga L. | rhizome | galangin, kampferid | (54;rhi) | |
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| 3 | SUMATERA (A) | 1. ACEH (1a-h) | **RED BROWN** | **COTTON** |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| sijalo (?) | | | | Sijalo = a kind of | Sijalo = a kind of tree which grows often on the river banks. |
| bah-ulim | Peltophorum pterocarpum DC. Backer | bark | dye/ tannin? | (D:brk;80) | |
| bengkudu | Morinda citrifolia L. | roots, wood (chips) | morindone, alizarin | (D;64-65; | |
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# MATERIALS LIST OF THE INDONESIAN NATURAL DYEING RECIPES

| 4 | SUMATERA (A) | 3. BATAK (2d/h-k) | **BLUE** | **COTTON** |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| indigo | Indigofera arrecta Hochst. ex A. Rich | leaves | kaempferitrin | (lvs;D;60;45-50) | |

| 5 | SUMATERA (A) | 4. NIAS (2g) | **RED BROWN** | **COTTON** |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| anodja | Peristrophe tinctoria L. | leaves | dye | (lvs;D;81) | |

| 6 | SUMATERA (A) | 5. PAYAKUMBUH (3b) | **YELLOW** | **COTTON** |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| kunyit | Curcuma domestica Val. | rhizome | curcumin | (rhi;D;31) | Asam sundai = lime-juice. Tawas = alum-mordant [ $K_2Al_2(SO_4)_4$ ] |
| asam sundai | | | ingredient | | |
| tawas | | | mordant | | |

# MATERIALS LIST OF THE INDONESIAN NATURAL DYEING RECIPES

| 7 | SUMATERA (A) | 5. PAYAKUMBUH (3b) | BLUE | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| indigo | Indigofera arrecta Hochst. ex A. Rich | leaves | kaempferitrin | (lvs;D;60;45-50) | |
| lime | | | | | |
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| 8 | SUMATERA (A) | 5. PAYAKUMBUH (3b) | BLACK | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| indigo | Indigofera arrecta Hochst. ex A. Rich | leaves | kaempferitrin | (lvs;D;60;45-50) | |
| lime | | | | | |
| buah sikaso | Clerodendron celamitosum L. | fruits | ingredient | (frt;I;25) | |
| gadung | | | ingredient | (I;33) | |
| lagundi | Vitex trifolia | woods | vitexin (?) | (I;wod(ash);110) | |
| pusako | | | | (lvs;?) | |
| simaung | Pangium edule Reinw. | oils | | (oil;I;78) | |
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| 9 | SUMATERA (A) | 5. PAYAKUMBUH (3b) | RED | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| sikaso | Clerodendron celamitosum L. | leaves | | (lvs;D;25) | |
| gadung | Cryptocarya massoy (Oken) Kosterm. | | | (I;33) | |
| lagundi | Vitex trifolia | woods | | (I;wod(ash);110) | |
| pusako | | | | (lvs;?) | |
| simaung | Pangium edule Reinw. | oils | | (oil;I;78) | |
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# MATERIALS LIST OF THE INDONESIAN NATURAL DYEING RECIPES

| 10 | SUMATERA (A) | 9. BENGKULU (7a-c) | YELLOW | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| kunyit | Curcuma domestica Val. | rhizome | curcumin | (rhi;D;31) | |
| black sugar cane | | | | | |
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| 11 | SUMATERA (A) | 9. BENGKULU (7a-c) | BLUE | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| kayu sepang | Caesalpinia sappan L. | | brazilin | (I;wod;15) | SCOURING for A9: coconut leaves ash; kayu ara kuning (Ficus spp.); duren (33) peels; kerosene; ayar blanda (rice stalks ash (74); wijen (I;oil;91); |
| nyari | | leaves | | (lvs;?) | |
| bungur | Lagerstroemia flos-reginae Retz. | bark | | (brk;D;53) | |
| jali | Coix lacryma-jobi L. | | | (?;28) | |
| air timbu | | | | | |
| sanam | Indigofera arrecta Hochst. ex A. Rich | leaves | kaempferitrin | (D;lvs;45/60) | |
| sebasa | Glochidion desmocarpum Hook. | bark | | (brk;D;42) | |
| lye (?) | | | | | |

| 12 | SUMATERA (A) | MARTAPURA | YELLOW | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| nyari | | | | (lvs;?) | |
| bungur | Lagerstroemia flos-reginae Retz. | | | (brk;D;53) | |
| jali | Coix lacryma-jobi L. | | | (?;28) | |
| terong | Solanum melongena L. | | | (lvs;96) | |
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# MATERIALS LIST OF THE INDONESIAN NATURAL DYEING RECIPES

| 13 | SUMATERA (A) | MARTAPURA (8c) | BLACK | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| kayu sepang | Caesalpinia sappan L. | | brazilin | (I;wod;15) | |
| nyari | | | | (lvs;?) | |
| bungur | Lagerstroemia flos-reginae Retz. | | | (brk;D;53) | |
| jali | Coix lacryma-jobi L. | | | (?;28) | |
| a black mud | | | | | |
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| 14 | SUMATERA (A) | MARTAPURA | RED | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| kayu sepang | Caesalpinia sappan L. | | brazilin | (I;wod;15) | |
| nyari | | | | (lvs;?) | |
| bungur | Lagerstroemia flos-reginae Retz. | | | (brk;D;53) | |
| jali | Coix lacryma-jobi L. | | | (?;28) | |
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| 15 | JAVA ((B) | SUKAPURA, CIAMIS? (10u) | RED | COTTON |
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**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| mengkudu | Morinda citrifolia L. | | morindone, alizarin | (brk/rot;D;64/68) | CITUAR (=Scouring?) I: AIR MERANG/ rice stalks ash (I;75), kemiri (oil;I;1), lada (nut; I; 84), cloves (oil/nut;I; 100), JAHE (rhi; |
| jirek | Symplocos fasciculata Zoll. | | aluminum sulphate | (Mo/I;oil?;100) | |
| dedek | Oryza sativa L. | | | (bran;77) | |
| CITUAR | | | | | |
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# MATERIALS LIST OF THE INDONESIAN NATURAL DYEING RECIPES

| 16 | JAVA ((B) | 2. BANDUNG (10a) and KERAWANG (10i) | YELLOW<br>LIGHT YELLOW | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| kunir | Curcuma domestica Val. | | curcumin | (rhi;D;31) | LIME = air kapur (sirih), lime (stone) solution. CITUAR II = MINYAK SUUK/ MINYAK KACANG (oil/nut;I;7), CISAPU, LOMBOK MERAH and JAHE. |
| LIME | | | (M) | | |
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| 17 | JAVA ((B) | 2. BANDUNG (10a) and KERAWANG (10i) | YELLOW<br>DARK YELLOW | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| secang | Caesalpinia sappan L. | | brazilin | (wod;D;15) | TUNJUNG (Mi) = alum mordant. TUNJUNG (I) = natural alum mordant from brk/lvs of (99). CITUAR II = MINYAK SUUK/ MINYAK KACANG |
| mengkudu | Morinda citrifolia L. | | morindone, alizarin | (D; | |
| soga | Maclura cochinchinensis (Lour.) Corner | | tannin | (D;brk;80/22/57) | |
| TUNJUNG | Symplocos fasciculata Zoll. | | aluminum sulphate | (Mi/I; | |
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| 18 | JAVA ((B) | 2. BANDUNG (10a) and KERAWANG (10i) | VIOLET<br>PURPLE | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| tom | Indigofera tinctoria L. | | indigotin | (lvs;D;45-50). | CITUAR II = MINYAK SUUK/ MINYAK KACANG (oil/nut;I;7), CISAPU, LOMBOK MERAH and JAHE. |
| kembang pulu | Carthamus tinctorius L. | | carthamin | (ptl;D;19) | |
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# MATERIALS LIST OF THE INDONESIAN NATURAL DYEING RECIPES

| 19 | JAVA ((B) | 2. BANDUNG (10a) and KERAWANG (10i) | RED BROWN | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| kembang pulu | Carthamus tinctorius L. | | carthamin | (ptl;D;19). | CITUAR II = MINYAK SUUK/ MINYAK KACANG (oil/nut;I;7), CISAPU, LOMBOK MERAH and JAHE. |
| pucuk ganti | Maclura cochinchinensis (Lour.) Corner | | | (lvs;?;56). | |
| mesoi | Cryptocarya massoy (Oken) Kosterm. | | | (brk;?;29). | |
| jinten ireng | Nigella sativa L. | | | (nut;I;73). | |
| pala | Myristica fragrants Houtt. | | | (nut;I;70). | |
| kemukus | Piper cubeba L.f. | | | (nut;I;84) | |
| lemon juice | Citrus aurantifolia (Chrism. & Penz) | | | (I;frt;23/24). | |
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| 20 | JAVA ((B) | 3. SUKANEGARA (10q)? | YELLOW | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| nangka | Artocarpus heterophillus Lmk. | | cyanomaclurin, morin | (wod;D;10). | CITUAR I: AIR MERANG/ rice stalks ash (I;75), kemiri (oil;I;1), lada (nut; I; 84), cloves (oil/nut;I; 100), JAHE (rhi; I;109), laja (?); bawang putih |
| CITUAR I | | | | | |
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| 21 | JAVA ((B) | 3. SUKANEGARA (10q)? | GREEN | COTTON |
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**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| cengkudu | Morinda citrifolia L. | | morindone, alizarin | (D;brk/rot;64/65) | CITUAR I: AIR MERANG/ rice stalks ash (I;75), kemiri (oil;I;1), lada (nut; I; 84), cloves (oil/nut;I; 100), JAHE (rhi; I;109), laja (?); bawang putih |
| CITUAR I | | | | | |
| TUNJUNG | Symplocos fasciculata Zoll. | | aluminum sulphate | (Mo/I;lvs;100) | |
| kacang rowaj | Phaseolus lunatus L. | | | (lvs;?;82). | |
| hot herbs | Capsicum annum L.; Nigella sativa L. | | | (I;17/73/etc.) | |
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# MATERIALS LIST OF THE INDONESIAN NATURAL DYEING RECIPES

| 22 | JAVA ((B) | 3. SUKANEGARA (10q)? | **BLUE** | **COTTON** |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| tom | Indigofera tinctoria L. | | indigotin | (lvs;D;45-50) | CITUAR I: AIR MERANG/ rice stalks ash (I;75), kemiri (oil;I;1), lada (nut; I; 84), cloves (oil/nut;I; 100), JAHE (rhi; I;109), laja (?); bawang putih |
| LIME (M) | | | | | |
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| 23 | JAVA ((B) | 3. SUKANEGARA (10q)? | **BLACK** | **COTTON** |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| cengkudu | Morinda citrifolia L. | | morindone, alizarin | (D;brk/rot;64/65) | CITUAR I: AIR MERANG/ rice stalks ash (I;75), kemiri (oil;I;1), lada (nut; I; 84), cloves (oil/nut;I; 100), JAHE (rhi; I;109), laja (?); bawang putih |
| CITUAR I | | | | | |
| TUNJUNG | | | alum mordant | | |
| tom | Indigofera tinctoria L. | | indigotin | (lvs;D;45-50) | |
| A BLACK MUD | | | | | |
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| 24 | JAVA ((B) | 3. SUKANEGARA (10q)? | **PURPLE VIOLET** | **COTTON** |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| cengkudu | Morinda citrifolia L. | | morindone, alizarin | (D;brk/rot;64/65) | SAPU, LOMBOK MERAH, and JAHE. CITUAR I: AIR MERANG/ rice stalks ash (I;75), kemiri (oil;I;1), lada (nut; I; 84), cloves (oil/nut;I; |
| CITUAR I | | | | | |
| TUNJUNG | Symplocos fasciculata Zoll. | | aluminum sulphate | (Mo/I;lvs;100) | |
| kitambaga | Eugenia cuprea | | | (?;brk;7). | |
| tom | Indigofera tinctoria L. | | indigotin | (lvs;D;45-50) | |
| LIME (M). | | | (M) | | |
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# MATERIALS LIST OF THE INDONESIAN NATURAL DYEING RECIPES

| 25 | JAVA ((B) | 3. SUKANEGARA (10q)? | RED BROWN | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| cengkudu | Morinda citrifolia L. | | morindone, alizarin | (D;brk/rot;64/65) | CITUAR I: AIR MERANG/ rice stalks ash (I;75), kemiri (oil;I;1), lada (nut; I; 84), cloves (oil/nut;I; 100), JAHE (rhi; I;109), laja (?); bawang putih |
| CITUAR I | | | | | |
| TUNJUNG | Symplocos fasciculata Zoll. | | aluminum sulphate | (Mo/I;lvs;100) | |

| 26 | JAVA ((B) | 4. CIREBON (10f) | BLUE | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| tom | Indigofera tinctoria L. | | indigotin | (lvs;D;45-50) | |
| SUGAR SYRUP | | | | | |
| gedang klutuk | Musa accuminata Colla. | pounded gedang klutuk | | (sed/frt;I;67) | |

| 27 | JAVA ((B) | 4. CIREBON (10f) | VIOLET PURPLE | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| cengkudu | Morinda citrifolia L. | | morindone, alizarin | (D;brk/rot;64/65) | CITUAR II = MINYAK SUUK/ MINYAK KACANG (oil/nut;I;7), CISAPU, LOMBOK MERAH and JAHE. |
| jirek | Symplocos fasciculata Zoll. | | aluminum sulphate | (Mo;lvs;100) | |
| CITUAR II | | | | | |

# MATERIALS LIST OF THE INDONESIAN NATURAL DYEING RECIPES

| 28 | JAVA ((B) | 4. CIREBON (10f) | RED BROWN | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| cengkudu | Morinda citrifolia L. | | morindone, alizarin | (D;brk/rot;64/65) | CITUAR II = MINYAK SUUK/ MINYAK KACANG (oil/nut;I;7), CISAPU, LOMBOK MERAH and JAHE. |
| jirek | | | | (Mo;lvs;100) | |
| CITUAR II | Symplocos fasciculata Zoll. | | aluminum sulphate | | |
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| 29 | JAVA ((B) | 5. TASIKMALAYA (10u) | YELLOW | COTTON |
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**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| soga | Maclura cochinchinensis (Lour.) Corner | | | (brk;D;22/57/80) | |
| kunir | Curcuma domestica Val. | | curcumin | (rhi;D;31) | |
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| 30 | JAVA ((B) | 5. TASIKMALAYA (10u) | GREEN | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| soga | Maclura cochinchinensis (Lour.) Corner | | | (brk; | |
| kunir | Curcuma domestica Val. | | curcumin | (rhi;D;31) | |
| tom | Indigofera tinctoria L. | | indigotin | (lvs;D;45-50). | |
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# MATERIALS LIST OF THE INDONESIAN NATURAL DYEING RECIPES

| 31 | JAVA ((B) | 5. TASIKMALAYA (10u) | **BLUE** | **COTTON** |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| tom | Indigofera tinctoria L. | | indigotin | (lvs;D;45-50). | |

| 32 | JAVA ((B) | 5. TASIKMALAYA (10u) | **VIOLET PURPLE** | **COTTON** |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| cengkudu | Morinda citrifolia L. | | morindone, alizarin | (D;brk/rot;64/65) | |
| jirek | Symplocos fasciculata Zoll. | | aluminum sulphate | (Mo;lvs;100) | |
| soga | Maclura cochinchinensis (Lour.) Corner | | | (brk;D;22/57/80) | |
| MUD BATH | | | | | |

| 33 | JAVA ((B) | 6. KUNINGAN (10j) | **RED BROWN** | **COTTON** |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| cengkudu | Morinda citrifolia L. | | morindone, alizarin | (D;brk/rot;64/65) | CITUAR I = CISAPU: AIR MERANG/ rice stalks ash (I;75), kemiri (oil;I;1), lada (nut; I; 84), cloves (oil/nut;I; 100), JAHE (rhi; I;109), laja (?); |
| jirek | Symplocos fasciculata Zoll. | | aluminum sulphate | (Mo;lvs;100) | |
| CITUAR I | | | | | |

# MATERIALS LIST OF THE INDONESIAN NATURAL DYEING RECIPES

| 34 | JAVA ((B) | 7. PEKALONGAN (11s) | BLUE | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| tom | Indigofera tinctoria L. | | indigotin | (lvs;D;45-49) | |

| 35 | JAVA ((B) | 7. PEKALONGAN (11s) | BLACK | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| cengkudu | Morinda citrifolia L. | | morindone, alizarin | (D;brk/rot;64/65) | CITUAR I: AIR MERANG/ rice stalks ash (I;75), kemiri (oil;I;1), lada (nut; I; 84), cloves (oil/nut;I; 100), JAHE (rhi; I;109), laja (?); bawang putih |
| jirek | Symplocos fasciculata Zoll. | | aluminum sulphate | (Mo;lvs;100) | |
| kisireum | Eugenia jambolana Lam. | | | (lvs;?;38) | |
| MINYAK SUUK | | | | | |
| CISAPU I | | | | | |
| A MUD BATH | | | | | |

| 36 | JAVA ((B) | 7. PEKALONGAN (11s) | VIOLET PURPLE | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| mengkudu | Morinda citrifolia L. | | morindone, alizarin | (D;brk/rot;64/65) | CITUAR I: AIR MERANG/ rice stalks ash (I;75), kemiri (oil;I;1), lada (nut; I; 84), cloves (oil/nut;I; 100), JAHE (rhi; I;109), laja (?); bawang putih |
| AIR MERANG | Oryza sativa L. | | | | |
| MINYAK SUUK | Arachis hipogea L. | | | | |
| kisireum | Eugenia jambolana Lam. | | | (lvs;?;38) | |
| A MUD BATH | | | | | |

# MATERIALS LIST OF THE INDONESIAN NATURAL DYEING RECIPES

| 37 | JAVA ((B) | 7. PEKALONGAN (11s) | **RED** | **COTTON** |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| mengkudu | Morinda citrifolia L. | | morindone, alizarin | (D;brk/rot;64/65) | CITUAR I: AIR MERANG/ rice stalks ash (I;75), kemiri (oil;I;1), lada (nut; I; 84), cloves (oil/nut;I; 100), JAHE (rhi; I;109), laja (?); bawang putih |
| AIR MERANG | Oryza sativa L. | | | | |
| MINYAK SUUK | Arachis hipogea L. | | | | |
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| 38 | JAVA ((B) | 8. BANYUMAS (11b) | **YELLOW** | **COTTON** |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| kunir | Curcuma domestica Val. | | curcumin | (rhi;D;31). | TUNJUNG (Mi) = alum mordant. TUNJUNG (I) = natural alum mordant from brk/lvs of (99). |
| laban | Vitex pubestus Vahl. | | vitexin (?) | (brk;?;109) | |
| kara | Mucuna pruriens (L.) DC. | | | (lvs;66) | |
| TUNJUNG | | | alum mordant | | |
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| 39 | JAVA ((B) | 8. BANYUMAS (11b) | **BLUE** | **COTTON** |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| tom | Indigofera tinctoria L. | | indigotin | (lvs;D;45-50) | |
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# MATERIALS LIST OF THE INDONESIAN NATURAL DYEING RECIPES

| 40 | JAVA ((B) | 8. BANYUMAS (11b) | BLACK | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| tom | Indigofera tinctoria L. | | indigotin | (lvs;D;45-50) | |
| soga | Peltophorum pterocarpum DC. Backer | | tannin | (brk; | |
| minyak kacang | Arachis hipogea L. | | oil | | |
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| 41 | JAVA ((B) | 8. BANYUMAS (11b) | VIOLET PURPLE | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| mengkudu | Morinda citrifolia L. | bark | morindone, alizarin | (D;brk/rot;64/65) | |
| jirek | Symplocos fasciculata Zool. | leaves | aluminum sulphate | (Mo;lvs;100). | |
| minyak kacang | Arachis hipogea L. | oil | | | |
| wijen | Sesamum indicum L. | oil | | (oil;I;94) | |
| AIR MERANG | Oryza sativa L. | LYE | | | |
| tom | Indigofera tinctoria L. | leaves | indigotin or kaempferitrin | (lvs;D;45-50) | |
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| 42 | JAVA ((B) | 8. BANYUMAS (11b) | RED | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| mengkudu | Morinda citrifolia L. | bark | morindone, alizarin | (D;brk/rot;64/65) | |
| jirek | Symplocos fasciculata Zool. | leaves | aluminum sulphate | (Mo;lvs;100). | |
| minyak kacang | Arachis hipogea L. | oil | | | |
| wijen | Sesamum indicum L. | oil | | (oil;I;94) | |
| AIR MERANG | Oryza sativa L. | LYE | | | |
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# MATERIALS LIST OF THE INDONESIAN NATURAL DYEING RECIPES

| 43 | JAVA ((B) | 9. DEMAK ( 11h) | YELLOW | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| tegerang | Maclura cochinchinensis (Lour.) Corner. | wood | | (D;wod;57) | TUNJUNG (Mi) = alum mordant. TUNJUNG (I) = natural alum mordant from brk/lvs of (99). |
| laban | Vitex pubestus Vahl. | bark | vitexin (?) | (brk;?;109) | |
| TUNJUNG | | | alum mordant | | |

| 44 | JAVA ((B) | 9. DEMAK ( 11h) | GREEN | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| laban | Vitex pubestus Vahl. | bark | vitexin (?) | (brk;?;109). | TUNJUNG (Mi) = alum mordant. TUNJUNG (I) = natural alum mordant from brk/lvs of (99). |
| TUNJUNG | | | alum mordant | | |

| 45 | JAVA ((B) | 9. DEMAK ( 11h) | BLUE | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| tom | Indigofera tinctoria L. | leaves | indigotin | (lvs;D;46-50) | |

# MATERIALS LIST OF THE INDONESIAN NATURAL DYEING RECIPES

| 46 | JAVA ((B) | 9. DEMAK ( 11h) | BLACK | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| tom | Indigofera tinctoria L. | leaves | indigotin | (lvs;D;45-50) | |

| 47 | JAVA ((B) | 9. DEMAK ( 11h) | RED | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| mengkudu | Morinda citrifolia L. | root/ bark | morindone, alizarin | (D;brk/rot;64/65) | |
| tingi | Ceriops tagal (Perr.) | wood | | (wod;D;22) | |
| jirek | Symplocos fasciculata Zool. | bark/ leaves? | aluminum sulphate | (Mo;lvs/brk;100) | |
| jarak | Ricinus communis L. | oil | | (oil;I;91) | |

| 48 | JAVA ((B) | 10. SRAGEN (11y). | YELLOW | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| tegerang | Maclura cochinchinensis (Lour.) Corner. | wood | | (D;wod;57) | |

# MATERIALS LIST OF THE INDONESIAN NATURAL DYEING RECIPES

| 49 | JAVA ((B) | 10. SRAGEN (11y). | BLUE | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| tom | Indigofera tinctoria L. | leaves | indigotin | (lvs;D;45-50) | Javanese Vinegar = **legen**. SIRIH LIME (kapur sirih) = kalsium karbonat. Javanese vinegar is a very young coconut fruit juice (26),and in Java |
| Javanese vinegar | | | | | |
| GULA TETES | | | | | |
| SIRIH LIME | | | | | |
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| 50 | JAVA ((B) | 10. SRAGEN (11y). | BLACK | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| tom | Indigofera tinctoria L. | leaves | indigotin | (lvs;D;45-50) | |
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| 51 | JAVA ((B) | 10. SRAGEN (11y). | RED | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| mengkudu | Morinda citrifolia L. | root/ bark | morindone, alizarin | (D;brk/rot;64/65) | Wood/ bamboo? ash for light red. Bamboo, bambu (IN) = *Gigantochloa apus* (Bl.ex Schulf.f.) Kurt. (there are at least 5 species). |
| wood/ bamboo? | Gigantochloa apus (Bl.ex Schulf.f.) | ash | | (?;lvs;I) | |
| secang | Caesalpinia sappan L. | wood | brazilin | (wod;D;15) | |
| noja | | leaves | | (lvs;?;81) | |
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# MATERIALS LIST OF THE INDONESIAN NATURAL DYEING RECIPES

| 52 | JAVA ((B) | 13. BLORA (11d). | YELLOW | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| tegerang | Maclura cochinchinensis (Lour.) Corner. | wood | | (D;wod;57) | SCOURING for B.13 : GULA TETES (molasses) or with Javanese vinegar (legen). Notes for B.14 : In 1900s, some of dyes replaced with aniline (C). |
| laban | Vitex pubestus Vahl. | bark | vitexin (?) | (brk;?;109) | |
| TUNJUNG | | | alum mordant | | |

| 53 | JAVA ((B) | 13. BLORA (11d). | GREEN | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| laban | Vitex pubestus Vahl. | bark | vitexin (?) | (brk;?;109) | TUNJUNG (Mi) = alum mordant. TUNJUNG (I) = natural alum mordant from brk/lvs of (99). |
| TUNJUNG | | | alum mordant | | |

| 54 | JAVA ((B) | 13. BLORA (11d). | BLUE | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| tom | Indigofera tinctoria L. | leaves | indigotin | (lvs;D;45-50) | |

# MATERIALS LIST OF THE INDONESIAN NATURAL DYEING RECIPES

| 55 | JAVA ((B) | 13. BLORA (11d). | BLACK | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| tom | Indigofera tinctoria L. | leaves | indigotin | (lvs;D;40-50) | |

| 56 | JAVA ((B) | 13. BLORA (11d). | RED | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| mengkudu | Morinda citrifolia L. | | morindone, alizarin | (D;brk/rot;64/65) | |
| tingi | Ceriops tagal (Perr.) | wood | | (wod;D;22) | |
| jirek | Symplocos fasciculata Zool. | bark/ leaves | aluminum sulphate | (Mo;lvs/brk;100). | |
| jarak | Ricinus communis L. | oil | | (oil;I;91) | |

| 57 | JAVA ((B) | 14. KEDIRI (12h). | RED | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| mengkudu | Morinda citrifolia L. | root/ bark | morindone, alizarin | (D;brk/rot;64/65) | |
| jarak | Ricinus communis L. | oil | | (oil;I;91) | |
| COCONUT OIL | | | | | |

# MATERIALS LIST OF THE INDONESIAN NATURAL DYEING RECIPES

| 58 | JAVA ((B) | 15. SURABAYA (12z) | BLUE | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| tom | Indigofera tinctoria L. | leaves | indigotin | (lvs;D;45-50) | |

| 59 | JAVA ((B) | 15. SURABAYA (12z) | BLACK | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| tom | Indigofera tinctoria L. | leaves | indigotin | (lvs;D;45-50) | |

| 60 | JAVA ((B) | 16. SIDOARJO (12x) | RED | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| mengkudu | Morinda citrifolia L. | root/ bark | morindone, alizarin | (D;brk/rot;64/65) | Notes for B.16 : In 1900s, some of dyes replaced with aniline (C), and + sugar cubes, alum, vinegar, lemon juice. |
| jarak | Ricinus communis L. | oil | | (oil;I;91) | |
| COCONUT OIL | | | | | |

# MATERIALS LIST OF THE INDONESIAN NATURAL DYEING RECIPES

| 61 | JAVA ((B) | 17. MADURA (12a/q/w/y). | GREEN | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| laban | Vitex pubestus Vahl. | bark | vitexin (?) | (brk;?;109) | PRUSI = copper sulphate. |
| papasan | Coccinia cordifola Cogn. | leaves | | (lvs;?;26) | |
| PRUSI | | | | | |
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| 62 | JAVA ((B) | 17. MADURA (12a/q/w/y). | BLUE | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| tom | Indigofera tinctoria L. | leaves | indigotin | (lvs;D;45-50) | |
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| 63 | JAVA ((B) | 17. MADURA (12a/q/w/y). | BLACK | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| tom | Indigofera tinctoria L. | levaes | indigotin | (lvs;D;45-50) | |
| soga | Pelthophorum pterocarpum (DC.) | | tannin | (brk;D;80), | |
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| 64 | JAVA ((B) | 17. MADURA (12a/q/w/y). | RED | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| mengkudu | Morinda citrifolia L. | root/ bark | morindone, alizarin | (D;brk/rot;64/65) | |
| jirek | Symplocos fasciculata Zool. | | aluminum sulphate | (Mo;lvs;100) | |
| banana trunk | | ash? | | (?;67-69) | |
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| 65 | KALIMANTAN (C) | 1. DAYAK (Kenyah/ Kantok) (14-17). | BLUE | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| tom, tarum akar (Dk) | Marsdenia tinctoria R.Br. | leaves | indigotin (?) | (lvs;D;45-50,60). | |
| tapai | | | | (YEAST;??). | |
| banana trunk | | ash | | (?;67-69) | |
| kepayang | | | | (oil; I;78). | |
| COCONUT OIL | | | | | |
| SALT (?) | | | | | |
| kunyit | | | | (rhi;D;31) | |
| | | | | | |

| 66 | SULAWESI and MALUKU (D) | 1. TAHULANDANG (18d) | YELLOW | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| enggusi | Lansium domesticum Jack. | bark | | (brk;?;55). | |
| kunyit | | | | (rhi;D;31) | |
| kapudirihe | | | | (?;56) | |
| ORANGE JUICE | | | | (frt;I;23/24). | |
| LIME | | | | | |
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# MATERIALS LIST OF THE INDONESIAN NATURAL DYEING RECIPES

| 67 | SULAWESI and MALUKU (D) | 1. TAHULANDANG (18d) | **BLUE** | **COTTON** |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| harumanting | Rhodomyrtus tomentosa | wood ash | | (I;wod-ash;90) | |
| sanduduk | Melastoma malabathricum L. | wood ash | | (I;wod-ash;61) | |
| sihampir | | | | | |
| kunyit | | | | (rhi;D;31) | |
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| 68 | SULAWESI and MALUKU (D) | 1. TAHULANDANG (18d) | **BLACK** | **COTTON** |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| karuka (?) | | | | | SIGIRA-GIRA ? + A MUD BATH |
| mahansilang | | | | | |
| pisang roots | | | | | |
| manggis | Garcinia mangostana L. | fruits | mangostin | (frt;D;41) | |
| kunyit | Curcuma domestica Val. | | | (rhi;D;31) | |
| kanume | Semecarpus heterophylla Bl. | bark | | (brk;D/I;93) | |
| jarak | Ricinus communis L. | oil | | (oil;I;91) | |
| joring | Piper nigrum L. | bark | | (brk;I;85) | |

| 69 | SULAWESI and MALUKU (D) | 1. TAHULANDANG (18d) | **RED** | **COTTON** |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| bengkudu | Morinda citrifolia L. | root/ bark | morindone, alizarin | (D;brk/rot;64/65) | |
| kapudirihe | | | | (?;56) | |
| ketapang | Terminalia cattapa L. | bark | | (brk;D?;106) | |
| lansi | | bark | | (brk;?;56) | |
| johar | Cassia seamea Lam. | bark | | (brk:?;20) for | |
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# MATERIALS LIST OF THE INDONESIAN NATURAL DYEING RECIPES

| 70 | SULAWESI and MALUKU (D) | 2. BUGIS (20q/r). | RED | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| amuja | Peristrophe tinctoria L. | leaves | | (lvs;?;81) | bingkuru = mengkudu (wod/rot; D;63/64). anropi = jirek (99). minyak bado = oil from kesambi tree (91). |
| lemon juice | | | | | |
| bingkuru | Morinda citrifolia L. | root/ wood | morindone, alizarin | (wod/rot; | |
| anropi | Symplocos fasciculata Zool. | | aluminum sulphate. | | |
| air merang | | | | | |
| minyak bado | Schleigera trijuga Willd. | oil | | | |
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| 71 | SULAWESI and MALUKU (D) | 3. SALAYAR (20o). | GREEN | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| ketapang | Terminalia cattapa L. | bark | | (brk;D;106) | |
| kunyit | Curcuma domestica Val. | rhizome | curcuma | (rhi;D;31) | |
| lalupang | Urena lobata L. | leaves | | (lvs;D?;108). | |
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| 72 | SULAWESI and MALUKU (D) | 3. SALAYAR (20o). | RED | COTTON |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| tingi | Ceriops tagal (Perr.) | bark | | (brk;D;22) | |
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# MATERIALS LIST OF THE INDONESIAN NATURAL DYEING RECIPES

| 73 | BALI, EAST and WEST NUSATENGGARA (E) | 4. SUMBAWA (23f) | **BLUE** | **COTTON** |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| tom | Indigofera zollingeriana Miq. | | indigotin. | (lvs;D;45-50.60) | |
| kemiri | Aleurites molluccana Willd. | | | (oil;I;1) | |
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| 74 | BALI, EAST and WEST NUSATENGGARA (E) | 4. SUMBAWA (23f) | **RED BROWN** | **COTTON** |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| mengkudu | Morinda citrifolia L. | | morindone, alizarin | (D;brk/rot;64/65) | |
| kemiri | Aleurites molluccana Willd. | oil | | (oil;I;1). | |
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| 75 | SUMATERA (A) | 1. ACEH I (1a-h) | **YELLOW** | **SILK** |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| kunyit | Curcuma domestica Val. | | curcumin | (rhi;D;31) | SCOURING : 1. washed with lye; 2. dyed with curcuma, kunyit, alum, and lemon juice. FOR ORANGE COLOR: red recipe + lemon juice. |
| boh kruet | Citrus hystrix DC. | | | (I;frt;24) | |
| ALUM | | | alum mordant | (N/Mi) | |
| | | | | | |
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# MATERIALS LIST OF THE INDONESIAN NATURAL DYEING RECIPES

| 76 | SUMATERA (A) | 1. ACEH I (1a-h) | RED BROWN | SILK |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| carmine red/ peudendang | Passiflora foetida L. | | | (lvs;?/79) | Carmine red/ peudendang. Malu sidom = ant malu, near many dead ants. Blendok trembalo = Ambalau = a kind of tree gum resin, produced |
| mau sidom/ blendok | similar with cochineal | | laccaic acid | | |

| 77 | SUMATERA (A) | 1. ACEH II (1a-h) | YELLOW | SILK |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| tegerang | Maclura cochinchinensis (Lour.) Corner | wood | | (D;wod;57) | SCOURING : 1. washed with lye; 2. dyed with curcuma, kunyit, alum, and lemon juice. FOR ORANGE COLOR: red recipe + lemon juice. |
| LEMON | | | | | |
| ALUM | | | | | |

| 78 | SUMATERA (A) | 1. ACEH III (1a-h) | YELLOW ORANGE | SILK |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| kunyit | Curcuma domestica Val. | | curcumin | (rhi;D;31) | SCOURING : 1. washed with lye; 2. dyed with curcuma, kunyit, alum, and lemon juice. FOR ORANGE COLOR: red recipe + lemon juice. |
| mau sidom/ blendok | similar with cochineal | | laccaic acid | | |
| orange juice | | | | | |
| ALUM | | | | | |

# MATERIALS LIST OF THE INDONESIAN NATURAL DYEING RECIPES

| 79 | SUMATERA (A) | 1. ACEH III (1a-h) | BLUE | SILK |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| tom | Indigofera tinctoria L. | | indigotin | (lvs;D;45-50,60) | SCOURING : 1. washed with lye; 2. dyed with curcuma, kunyit, alum, and lemon juice. FOR ORANGE COLOR: red recipe + lemon juice. |

| 80 | SUMATERA (A) | 1. ACEH III (1a-h) | VIOLET PURPLE | SILK |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| malu lembayung (aniline) | (aniline) | | | | SCOURING : 1. washed with lye; 2. dyed with curcuma, kunyit, alum, and lemon juice. FOR ORANGE COLOR: red recipe + lemon juice. |
| tom | Indigofera tinctoria L. | | indigotin | (lvs;D;45-50,60) | |
| mau sidom/ blendok | similar with cochineal | | laccaic acid | | |

| 81 | SUMATERA (A) | 1. ACEH III (1a-h) | RED BROWN | SILK |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| ulim | Peltophorum pterocarpum DC. Backer | bark | tannin? | (brk;D;80). | SCOURING : 1. washed with lye; 2. dyed with curcuma, kunyit, alum, and lemon juice. FOR ORANGE COLOR: red recipe + lemon juice. |
| jambu ie | Syzygium aqueum (Burm.f.) Alst. | bark | | (I;brk;102) | |
| glundong | Odina wodier Roxb. | bark | | (brk;?;74) | |
| buah nona | Annona reticulata L. | fruit | | (?; frt;5). | |
| sawo | Mimusops kauki L. | fruit | | (frt;I;59) | |

# MATERIALS LIST OF THE INDONESIAN NATURAL DYEING RECIPES

| 82 | SUMATERA (A) | 1. ACEH IV (1a-h) | GREEN | SILK |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| kakasan | Hiptage madablota Gaert. | leaves | | (lvs;D;44) = | INDUSTRY RECIPE SCOURING : 1. washed with lye; 2. dyed with curcuma, kunyit, alum, and lemon juice. FOR ORANGE COLOR: |
| bujang simalem | Jussieta suffruticosa L. | leaves | | (lvs;D/I;52) | |
| young coconut | | | | | |
| rambutan | Nephelium lappaceum L. | very young leaves | | (lvs;I;72) | |
| a thin black mud | | | | | |
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| 83 | SUMATERA (A) | 1. ACEH IV (1a-h) | BLUE | SILK |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| tom | Indigofera zollingeriana Miq. | leaves | indigotin | (lvs;D;45-50,60) | INDUSTRY RECIPE SCOURING : 1. washed with lye; 2. dyed with curcuma, kunyit, alum, and lemon juice. FOR ORANGE COLOR: |
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| 84 | SUMATERA (A) | 1. ACEH IV (1a-h) | BLACK | SILK |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| kakasan | Hiptage madablota Gaert. | leaves | | (lvs;D;44) = | INDUSTRY RECIPE This black recipe includes: sugoilemo (?); teumeutieng?: gukueteleung?; siudeng-udeng; kupula cange. |
| kupula tanjung | Mimusops elengi L. | unripe fruit | | (unripe frt;I;62) | |
| soga | Peltophorum pterocarpum DC. Backer | bark | | (brk;D;80). | |
| buah delima | Punica granatum L. | unripe fruit | | (unripe frt;I;88). | |
| mangga | Mangifera Indica L | seed | | (sed;I;58). | |
| blendok trembalo/ malu | similar with cochineal | | laccaic acid | | |
| MUD DYEING | | | | | |
| | | | | | |

| 85 | SUMATERA (A) | 1. ACEH IV (1a-h) | RED BROWN | SILK |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| kakasan | Hiptage madablota Gaert. | leaves | | (lvs;D;44) = | INDUSTRY RECIPE This red/ brown recipe includes: sugoilemo (?); teumeutieng?: gukueteleung?; siudeng-udeng; kupula cange. |
| kupula tanjung | Mimusops elengi L. | unripe fruit | | (unripe frt;I;62) | |
| soga | Peltophorum pterocarpum DC. Backer | bark | | (brk;D;80). | |
| buah delima | Punica granatum L. | unripe fruit | | (unripe frt;I;89). | |
| mangga | Mangifera Indica L | seed | | (sed;I;58). | |
| blendok trembalo/ malu | similar with cochineal | | laccaic acid | | |
| | | | | | |
| | | | | | |

| 86 | SUMATERA (A) | 2. BATUBARA (2q). | YELLOW | SILK |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| kunyit | Curcuma domestica Val. | rhizome | curcumin | (rhi;D;31). | |
| LEMON JUICE | | | | | |
| tamarind | Tamarindus indica L. | fruit | | (frt;I;104) | |
| coconut | Cocos nucifera L. | lvs-ash | | (lvs-ash;??;27). | |
| ALUM | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| 87 | SUMATERA (A) | 2. BATUBARA (2q) | RED BROWN | SILK |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| kesumba keling | Bixa orellana L. | mashed sed | bixin | (mashed sed; | Malu sidom = ant malu, near many dead ants. Blendok trembalo = Ambalau = a kind of tree gum resin, produced by secretions of the cochineal like |
| blendok trembalo/ malu | similar with cochineal | | laccaic acid | | |
| tamarind | Tamarindus indica L. | | | (frt;I;104) | |
| LYE | | | | | |
| | | | | | |
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# MATERIALS LIST OF THE INDONESIAN NATURAL DYEING RECIPES

| 88 | SUMATERA (A) | 5. PAYAKUMBUH (3b) | YELLOW | SILK |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| kunyit | Curcuma domestica Val. | rhizome | curcumin | (rhi;D;31) | |

| 89 | SUMATERA (A) | 6. MINANGKABAU (3c) | YELLOW | SILK |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| kunyit | Curcuma domestica Val. | rhizome | curcumin | (rhi;D;31) | |

| 90 | SUMATERA (A) | 7. SILUNGKANG (3e-g) | YELLOW | SILK |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| kunyit | Curcuma domestica Val. | rhizome | curcumin | (rhi;D;31) | The dyes might have been replaced with aniline. |
| mengkudu | Morinda citrifolia L. | bark | morindone, alizarin | (D;brk/rot;64/65) | |

# MATERIALS LIST OF THE INDONESIAN NATURAL DYEING RECIPES

| 91 | SUMATERA (A) | 7. SILUNGKANG (3e-g) | **GREEN** | **SILK** |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| kunyit | Curcuma domestica Val. | rhizome | curcumin | (rhi;D;31) | The dyes might have been replaced with aniline. |
| mengkudu | Morinda citrifolia L. | bark | morindone, alizarin | (D;brk/rot;64/65) | |
| tom | Indigofera arrecta Hochst. ex A. Rich | leaves | kaempferitrin | (lvs;D;45-50,60); | |

| 92 | SUMATERA (A) | 7. SILUNGKANG (3e-g) | **VIOLET PURPLE** | **SILK** |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| carmine red | | | | | The dyes might have been replaced with aniline. Malu sidom = ant malu, near many dead ants. Blendok trembalo = Ambalau = a |
| tom | Indigofera arrecta Hochst. ex A. Rich | | kaempferitrin | (lvs;D;46-50,60). | |
| blendok trembalo/ malu | similar with cochineal | | laccaic acid | | |
| ALUM | | | | | |

| 93 | SUMATERA (A) | 7. SILUNGKANG (3e-g) | **RED BROWN** | **SILK** |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| jati | Tectona grandis  Lf. | young leaves | | (young- lvs; | The dyes might have been replaced with aniline. |

# MATERIALS LIST OF THE INDONESIAN NATURAL DYEING RECIPES

| 94 | SUMATERA (A) | 10. MARTAPURA (8c) | YELLOW | SILK |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| temu-lawak | Curcuma domestica Val. | rhizome | curcumin | (D;rhi;31). | |
| LEMON JUICE | | | | | |
| LIME | | | | | |
| | | | | | |
| | | | | | |
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| | | | | | |
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| 95 | JAVA ((B) | 11. SURAKARTA (11ai); 12. YOGYAKARTA (12a-e); 14. SURABAYA (12z); 18. GRESIK (12z); 19. BANYUWANGI (12b) | YELLOW | SILK |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| kunyit | Curcuma domestica Val. | rhizome | curcumin | (rhi;D;31) | The yarns washed with tamarind + lye. The natural dyes might have been replaced with aniline. |
| tegerang | Maclura cochinchinensis (Lour.) Corner | wood | | (wod;D;57) | |
| ALUM | | | | | |
| | | | | | |
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| | | | | | |
| | | | | | |

| 96 | JAVA ((B) | 11. SURAKARTA (11ai); 12. YOGYAKARTA (12a-e); 14. SURABAYA (12z); 18. GRESIK (12z); 19. BANYUWANGI (12b) | GREEN | SILK |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| kunyit | Curcuma domestica Val. | rhizome | curcumin | (rhi;D;31) | The yarns washed with tamarind + lye. The natural dyes might have been replaced with aniline. |
| tegerang | Maclura cochinchinensis (Lour.) Corner | wood | | (wod;D;57) | |
| ALUM | | | | | |
| tom | Indigofera tinctoria L. | leaves | indigotin | (lvs;D;47-50,60) | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| 97 | JAVA ((B) | 11. SURAKARTA (11ai); 12. YOGYAKARTA (12a-e); 14. SURABAYA (12z); 18. GRESIK (12z); 19. BANYUWANGI (12b) | **BLUE** | **SILK** |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| tom | Indigofera tinctoria L. | leaves | indigotin | (lvs;D;45-50,60) | The yarns washed with tamarind + lye. The natural dyes might have been replaced with aniline. |

| 98 | JAVA ((B) | 11. SURAKARTA (11ai); 12. YOGYAKARTA (12a-e); 14. SURABAYA (12z); 18. GRESIK (12z); 19. BANYUWANGI (12b) | **VIOLET PURPLE** | **SILK** |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| tom | Indigofera tinctoria L. | leaves | indigotin | (lvs;D;45-50,60) | The yarns washed with tamarind + lye. The natural dyes might have been replaced with aniline. Malu sidom = ant malu, near many dead ants. |
| blendok trembalo/ malu | similar with cochineal | | laccaic acid | | |
| ALUM | | | | | |

| 99 | JAVA ((B) | 11. SURAKARTA (11ai); 12. YOGYAKARTA (12a-e); 14. SURABAYA (12z); 18. GRESIK (12z); 19. BANYUWANGI (12b) | **RED BROWN** | **SILK** |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| blendok trembalo/ malu | similar with cochineal | | laccaic acid | | The yarns washed with tamarind + lye. The natural dyes might have been replaced with aniline. FOR DESIRED COLOR : mengkudu (D; |
| ALUM | | | | | |
| kemiri | Aleurites molluccana Willd. | oil | | (oil;I;1) | |
| tamarind | Tamarindus indica L. | fruit | | (frt;I;104). | |

# MATERIALS LIST OF THE INDONESIAN NATURAL DYEING RECIPES

| 100 | KALIMANTAN (C) | C. KALIMANTAN (14-17) | YELLOW | SILK |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| kunyit | Coix lacryma-jobi L. | rhizome | | (rhi;D;31) | |

| 101 | KALIMANTAN (C) | C. KALIMANTAN (14-17) | BLACK | SILK |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| gurah | Excoecaria indica (Willd.) Muell. Arg. | leaves | | (lvs;?;40) | gurah = Sapium indicum Willd. The dyes might have been replaced with aniline + alum. Malu sidom = ant malu, near many dead ants. |
| blendok trembalo/ malu | similar with cochineal | | laccaic acid | | |
| IRON RUST | | | | | |

| 102 | KALIMANTAN (C) | C. KALIMANTAN (14-17) | RED | SILK |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| blendok trembalo/ malu | similar with cochineal | | laccaic acid | | The dyes might have been replaced with aniline + alum. Malu sidom = ant malu, near many dead ants. Blendok trembalo = Ambalau = a |

# MATERIALS LIST OF THE INDONESIAN NATURAL DYEING RECIPES

| 103 | BALI, EAST and WEST NUSATENGGARA (E) | 1. BALI (22a-h). | YELLOW | SILK |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| kunyit | Curcuma domestica Val. | rhizome | curcumin | (rhi;D;31). | The dye might have been replaced with aniline. |

| 104 | BALI, EAST and WEST NUSATENGGARA (E) | 1. BALI (22a-h). | BLACK | SILK |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| tom | Indigofera tinctoria L. | leaves | indigotin | (lvs;D;45-50,60). | |
| MUD BATH | | | | | |
| kejimas | Duabanga mollucana Bl. | bark | | (brk;?;34) | |
| ulem | Eugenia polyantha | bark | | (brk;?;39). | |
| dulang-dulang | Glochidion obscurum (Willd.) Bl. | bark | | (brk;I;43). | |
| jarak | Ricinus communis L. | bark? | | (brk?;91). | |

| 105 | BALI, EAST and WEST NUSATENGGARA (E) | 2. SOLOR (24c/d/g/h) and ALOR (24a). | RED | SILK |
|---|---|---|---|---|

**Dyeing Materials :**

| Vernacular Name | Scientific Name | Parts Employed | Chemistry | Reference | Notes |
|---|---|---|---|---|---|
| bengkudu | Morinda citrifolia L. | root | morindone, alizarin | (D;brk/rot;64/65) | FOR INTENSE COLOR : secang (wod;D;14) + tamarind (sed; I;102). |
| soga | Peltophorum pterocarpum DC. Backer | bark | tannin | (brk;D;80). | |
| gambir | Uncaria gambir (Hunt.) Roxb. | leaves | catechin | (lvs;D;107). | |

# Index of Scientific - Vernacular Names

| No. | Scientific Name | Vernacular Name | Family Name | Chemical Constituents |
|---|---|---|---|---|
| 1 | Aleurites molluccana Willd. | kemiri (Jv) | Euphorbiaceae | |
| 2 | Allium cepa var. ascalonicum (L.) Back. | bawang merah (IN) | Liliaceae | quercetin |
| 3 | Allium sativum L. | bawang putih (IN) | Liliaceae | |
| 4 | Alpinia galanga L. | langkuas (Jv) | Zingiberaceae | galangin, kampferid |
| 5 | Annona reticulata L. | buah nona (IN) | Annonaceae | |
| 6 | Annona squamosa L. | sirkaya, srikaya (Ac., IN) | Annonaceae | |
| 7 | Aporosa frutescens Blume | sasah (Sn) | Euphorbiaceae | Aluminum tartrat |
| 8 | Arachis hipogea L. | kacang tanah (IN) | Fabaceae/ Leguminosae | |
| 9 | Artocarpus champeden | cempedak (Sn, Pb) | Moraceae | |
| 10 | Artocarpus heterophillus Lmk. | nangka (IN) | Moraceae | cyanomaclurin, morin |
| 11 | Averrhoa bilimbi L. | blimbing wuluh (Jv) | Oxalidaceae | |
| 12 | Basella rubra L. | gandola (Sn) | Basellaceae | |
| 13 | Bixa orellana L. | kesumba keling (Jv) | Bixaceae | bixin |
| 14 | Blumea balsamifera L. | sembung (Sn, Jv) | Compositae/ Asteraceae | |
| 15 | Caesalpinia sappan L. | kayu sappan, secang (Jv) | Caesalpiniaceae | brazilin |
| 16 | Calotropis gigantea | widuri (Sn) | Asclepiadaceae | |
| 17 | Capsicum annum L. | lombok merah (IN) | Solanaceae | |
| 18 | Carica papaya L. | pepaya (IN) | Caricaceae | |
| 19 | Carthamus tinctorius L. | kesumba (Jv.); kembang pulu (Sn.) | Compositae/ Asteraceae | carthamin |
| 20 | Cassia seamea Lam. | johar (Jv) | Fabaceae/ Leguminosae | |
| 21 | Ceiba petandra (L.) Gaertn. | kapok, kapok randu (Jv.). | Bombaceae | |
| 22 | Ceriops tagal (Perr.) | soga tingi (Jv.); tangirih (Mk.). | Rhizophoraceae | |
| 23 | Citrus aurantifolia (Chrism. & Penz) Swingle. | jeruk nipis, jeruk sambal or pecel (Jv., IN.) | Rutaceae | |
| 24 | Citrus hystrix DC. | jeruk purut (IN) | Rutaceae | |
| 25 | Clerodendron celamitosum L. | sikaso (La.); kembang bugang (Sn.) | Verbenaceae | |
| 26 | Coccinia grandis L. Voigt. | papasan (Mk.); kemarongan, cekli (Jv.). | Cucurbitaceae | |
| 27 | Cocos nucifera L. | kelapa (IN) | Arecaceae/ Palmae | |
| 28 | Coix lacryma-jobi L. | jali (Jv) | Poaceae/ Gramineae | |

# Index of Scientific - Vernacular Names

| No. | Scientific Name | Vernacular Name | Family Name | Chemical Constituents |
|---|---|---|---|---|
| 29 | Cryptocarya massoy (Oken) Kosterm. | misoi, mesui, mesoi (Ma.) | Lauraceae | |
| 30 | Cucumis sativus L. | ketimun (IN). | Cucurbitaceae | |
| 31 | Curcuma domestica Val. | kunir (Jv.); kunyit (IN.) | Zingiberaceae | curcumin |
| 32 | Curcuma xanthorrhiza Roxb. | temu lawak (Jv) | Zingiberaceae | curcuma |
| 33 | Dioscorea hispida Dennst. | gadung (Jv) | Dioscoreaceae | |
| 34 | Duabanga mollucana Bl. | kejimas (Ma) | Punicaceae/ Lythraceae | |
| 35 | Durio zibenthinus Murr. | Durian (IN) | Bombaceae | |
| 36 | Erythrina hypaphorus Boer. | dadap (Jv) | Fabaceae/ Leguminosae | |
| 37 | Eugenia cuprea | kitambaga (Sn) | Myrtaceae | |
| 38 | Eugenia jambolana Lam. | juwet (Jv), kisireum (Sn) | Myrtaceae | |
| 39 | Eugenia polyantha | janggar-ulem (Mt) | Myrtaceae | |
| 40 | Excoecaria indica (Willd.) Muell. Arg. | gurah (Ac), dawalong?( Sn). | Euphorbiaceae | |
| 41 | Garcinia mangostana L. | manggis (IN) | Clusiaceae/ Guttiferae | mangostin |
| 42 | Glochidion desmocarpum Hook. | sebasa (La) | Euphorbiaceae | |
| 43 | Glochidion obscurum (Willd.) Bl. | dulang-dulang (Mt.); ki pare (lalaki) (Sn.); | Euphorbiaceae | |
| 44 | Hiptage madablota Gaert. | kakasan (Jv) | Malphighiaceae | |
| 45 | Indigofera arrecta Hochst. ex A. Rich | nila (Jv.); sarap (Bt.); taim (Bt., Ba.). | Fabaceae/ Leguminosae | kaempferitrin |
| 46 | Indigofera galegoides DC. | tarum-utan (Jv) | Fabaceae/ Leguminosae | indigotin |
| 47 | Indigofera guatemalensis Moc., Sesse & Cerv. ex | tom-presi (Jv) | Fabaceae/ Leguminosae | indigotin |
| 48 | Indigofera suffruticosa Mill. | tom-cantik (Jv) | Fabaceae/ Leguminosae | indigotin |
| 49 | Indigofera tinctoria L. | tom-jawa (Jv) | Fabaceae/ Leguminosae | indigotin |
| 50 | Indigofera zollingeriana Miq. | tom-pantai (Jv) | Fabaceae/ Leguminosae | indigotin |
| 51 | Jatropha curcas L. | nawaih (Ac) | Euphorbiaceae | |
| 52 | Jussieta suffruticosa L. | bujang semalem (Ac, IN) | Onagraceae | |
| 53 | Lagerstroemia flos-reginae Retz. | bungur (La) | Punicaceae/ Lythraceae | |
| 54 | Languas galanga (L.) Stuntz. | lengkuas (Jv.) | Zingiberaceae | Galangin 93, 5,7- |
| 55 | Lansium domesticum Correa. | enggusi (Ta) | Meliaceae | |
| 56 | Lingustrum glomeratum | pucuk ganti (Sn) | Oleaceae | crocetin (?). |

# Index of Scientific - Vernacular Names

| No. | Scientific Name | Vernacular Name | Family Name | Chemical Constituents |
|---|---|---|---|---|
| 57 | Maclura cochinchinensis (Lour.) Corner | soga tegeran, tegeran, kayu kuning (Jv.). | Moraceae | |
| 58 | Mangifera Indica L | memplam (Jv.) | Anacardiaceae | euxanthic acid |
| 59 | Manilkara kauki (L.) Dubard. | sawo kecik, sawo (Jv., Sn.) | Sapotaceae | |
| 60 | Marsdenia tinctoria R.Br. | tarum akar [akar-tarum] (Dk.); aka sanam | Asclepiadaceae | indigotin (?) |
| 61 | Melastoma malabathricum L. | sanduduk (Bt.); sanduluk (Ba.) | Melastomataceae | |
| 62 | Mimusops elengi L. | kupula tanjung (Ac, Jv) | Sapotaceae | |
| 63 | Mimusops kauki L. | sawo (Jv, IN) | Sapotaceae | |
| 64 | Morinda citrifolia L. | pace (Jv.); bakudu, bengkudu (Ta.); | Rubiaceae | morindone, alizarin |
| 65 | Morinda umbellata L. | mengkudu, pace (Jv.) | Rubiaceae | morindone, alizarin |
| 66 | Mucuna pruriens (L.) DC. | kara-benguk (Jv) | Fabaceae/ Leguminosae | |
| 67 | Musa accuminata Colla. | gedang klutuk (Jv) | Musaceae | |
| 68 | Musa nana Lour. | pisang kidung (Ac) | Musaceae | |
| 69 | Musa paradisiaca L. | pisang (IN) | Musaceae | |
| 70 | Myristica fragrants Houtt. | pala (IN) | Myristicaceae | myristicin |
| 71 | Myrtus communis L. | jambu keling (Jv.,IN.,Ma.). | Myrtaceae | |
| 72 | Nephelium lappaceum L. | rambutan (IN., Jv., Ma.). | Sapindaceae | |
| 73 | Nigella sativa L. | jinten ireng (Jv) | Ranunculaceae | |
| 74 | Odina wodier Roxb. | glundong (Ac.); kuda-kuda (Ma.) | Anacardiaceae | quercetin, etc. In the flowers |
| 75 | Omalanthus populneus (Geiseler) Pax. | kareumbi (Sn.); tutup abang (Jv.). | Euphorbiaceae | |
| 76 | Oryza glutinosa Auct. | padi ketan (IN) | Poaceae/ Gramineae | |
| 77 | Oryza sativa L. | padi (IN) | Poaceae/ Gramineae | |
| 78 | Pangium edule Reinw. | kepayang (La), simaung (SumBar) | Bixaceae | |
| 79 | Passiflora foetida L. | peudendang (Ac) | Passifloraceae | |
| 80 | Peltophorum pterocarpum DC. Backer ex K. | soga jambal (Jv.), bah-ulim (Ac.) | Fabaceae/ Leguminosae | tannin |
| 81 | Peristrophe tinctoria L. | amuja (Bu.), anudja (To.) | Acanthaceae | |
| 82 | Phaseolus lunatus L. | roway, kacang roway (Sn.).; k. kara (Jv.) | Fabaceae/ Leguminosae | |
| 83 | Phylantus emblica L. (Willd) | malaka (Sn.); kemloko (Jv.) | Euphorbiaceae | |
| 84 | Piper cubeba L.f. | kemukus (Jv) | Piperaceae | |

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| No. | Scientific Name | Vernacular Name | Family Name | Chemical Constituents |
|---|---|---|---|---|
| 85 | Piper nigrum L. | lada (Jv) | Piperaceae | |
| 86 | Pithecelobium jiringa (Jack) Prain ex King. | jengkol (Jv) | Fabaceae/ Leguminosae | |
| 87 | Pouzolzia indica Goud. | seumpueng (Ac) | Urticaceae | |
| 88 | Psidium guajava (L.) Raddi. | jambu klutuk (Jv) | Myrtaceae | |
| 89 | Punica granatum L. | delima, buah delima (Jv., Sn.) | Punicaceae/ Lythraceae | |
| 90 | Rhodomyrtus tomentosa (Ait.) Wight. | harumonting (Bt) | Myrtaceae | |
| 91 | Ricinus communis L. | jarak (Jv) | Euphorbiaceae | |
| 92 | Schleigera trijuga Willd. | kesambi (Mk) | Sapindaceae | |
| 93 | Semecarpus heterophylla Bl. | kanume (Ta) | Anacardiaceae | |
| 94 | Sesamum indicum L. | wijen (Jv.), bijen (La.) | Fabaceae/ Leguminosae | |
| 95 | Smilax china L. | gadung utan, gadung thamba, gadung cina | Liliaceae | |
| 96 | Solanum melongena L. | terong (IN) | Solanaceae | |
| 97 | Spondias dulcis Soland ex Park | kedondong jawa (Jv.) | Anacardiaceae | pectin, iron, etc. |
| 98 | Spondias pinnata (L.f.) Kurz. | kedondong seberang (IN) | Anacardiaceae | citric acid, etc. |
| 99 | Sterculia foetida L. | nita, nufa (Ti.), kepuh (Jv.) | Sterculiaceae | potassium (?) |
| 100 | Symplocos fasciculata Zoll. | jirek, jirak (Jv.), anropi (Bu.), kandung | Styracaceae | aluminum sulphate |
| 101 | Symplocos ferruginea Roxb. | daun kandung (Pb) | Styracaceae | |
| 102 | Syzygium aqueum (Burm.f.) Alst. | jambu air (IN) | Myrtaceae | |
| 103 | Syzygium aromaticum L. Morr. et L.M. Perry | cengkeh (IN) | Moraceae | |
| 104 | Tamarindus indica L. | asam, asam jawa (Jv.,IN.) | Fabaceae/ Leguminosae | |
| 105 | Tectona grandis Lf. | jati (Jv, IN) | Verbenaceae | |
| 106 | Terminalia cattapa L. | ketapang (Jv) | Combretaceae | |
| 107 | Uncaria gambir (Hunt.) Roxb. | gambir (Jv). | Rubiaceae | catechin |
| 108 | Urena lobata L. | lalupang (Mk) | Malvaceae | |
| 109 | Vitex pubestus Vahl. | laban (Jv) | Verbenaceae | vitexin (?) |
| 110 | Vitex trifolia | lagundi (Jv) | Verbenaceae | vitexin (?) |
| 111 | Zingiber officinalis Rosc. | jahe (Jv, IN) | Zingiberaceae | galangin |

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| No. | Vernacular Name | Scientific Name | Family Name | Chemical Constituents |
|---|---|---|---|---|
| 1 | amuja (Bu.), anudja (To.) | Peristrophe tinctoria L. | Acanthaceae | |
| 2 | asam, asam jawa (Jv.,IN.) | Tamarindus indica L. | Fabaceae/ Leguminosae | |
| 3 | bawang merah (IN) | Allium cepa var. ascalonicum (L.) Back. | Liliaceae | quercetin |
| 4 | bawang putih (IN) | Allium sativum L. | Liliaceae | |
| 5 | blimbing wuluh (Jv) | Averrhoa bilimbi L. | Oxalidaceae | |
| 6 | buah nona (IN) | Annona reticulata L. | Annonaceae | |
| 7 | bujang semalem (Ac, IN) | Jussieta suffruticosa L. | Onagraceae | |
| 8 | bungur (La) | Lagerstroemia flos-reginae Retz. | Punicaceae/ Lythraceae | |
| 9 | cempedak (Sn, Pb) | Artocarpus champeden | Moraceae | |
| 10 | cengkeh (IN) | Syzygium aromaticum L. Morr. et L.M. Perry | Moraceae | |
| 11 | dadap (Jv) | Erythrina hypaphorus Boer. | Fabaceae/ Leguminosae | |
| 12 | daun kandung (Pb) | Symplocos ferruginea Roxb. | Styracaceae | |
| 13 | delima, buah delima (Jv., Sn.) | Punica granatum L. | Punicaceae/ Lythraceae | |
| 14 | dulang-dulang (Mt.); ki pare (lalaki) (Sn.); | Glochidion obscurum (Willd.) Bl. | Euphorbiaceae | |
| 15 | Durian (IN) | Durio zibenthinus Murr. | Bombaceae | |
| 16 | enggusi (Ta) | Lansium domesticum Correa. | Meliaceae | |
| 17 | gadung utan, gadung thamba, gadung cina | Smilax china L. | Liliaceae | |
| 18 | gadung (Jv) | Dioscorea hispida Dennst. | Dioscoreaceae | |
| 19 | gambir (Jv). | Uncaria gambir (Hunt.) Roxb. | Rubiaceae | catechin |
| 20 | gandola (Sn) | Basella rubra L. | Basellaceae | |
| 21 | gedang klutuk (Jv) | Musa accuminata Colla. | Musaceae | |
| 22 | glundong (Ac.); kuda-kuda (Ma.) | Odina wodier Roxb. | Anacardiaceae | quercetin, etc. In the flowers |
| 23 | gurah (Ac), dawalong?( Sn). | Excoecaria indica (Willd.) Muell. Arg. | Euphorbiaceae | |
| 24 | harumonting (Bt) | Rhodomyrtus tomentosa (Ait.) Wight. | Myrtaceae | |
| 25 | jahe (Jv, IN) | Zingiber officinalis Rosc. | Zingiberaceae | galangin |
| 26 | jali (Jv) | Coix lacryma-jobi L. | Poaceae/ Gramineae | |
| 27 | jambu air (IN) | Syzygium aqueum (Burm.f.) Alst. | Myrtaceae | |
| 28 | jambu keling (Jv.,IN.,Ma.). | Myrtus communis L. | Myrtaceae | |

# Index of Vernacular - Scientific Names

| No. | Vernacular Name | Scientific Name | Family Name | Chemical Constituents |
|---|---|---|---|---|
| 29 | jambu klutuk (Jv) | Psidium guajava (L.) Raddi. | Myrtaceae | |
| 30 | janggar-ulem (Mt) | Eugenia polyantha | Myrtaceae | |
| 31 | jarak (Jv) | Ricinus communis L. | Euphorbiaceae | |
| 32 | jati (Jv, IN) | Tectona grandis Lf. | Verbenaceae | |
| 33 | jengkol (Jv) | Pithecelobium jiringa (Jack) Prain ex King. | Fabaceae/ Leguminosae | |
| 34 | jeruk nipis, jeruk sambal or pecel (Jv., IN.) | Citrus aurantifolia (Chrism. & Penz) Swingle. | Rutaceae | |
| 35 | jeruk purut (IN) | Citrus hystrix DC. | Rutaceae | |
| 36 | jinten ireng (Jv) | Nigella sativa L. | Ranunculaceae | |
| 37 | jirek, jirak (Jv.), anropi (Bu.), kandung | Symplocos fasciculata Zoll. | Styracaceae | aluminum sulphate |
| 38 | johar (Jv) | Cassia seamea Lam. | Fabaceae/ Leguminosae | |
| 39 | juwet (Jv), kisireum (Sn) | Eugenia jambolana Lam. | Myrtaceae | |
| 40 | kacang tanah (IN) | Arachis hipogea L. | Fabaceae/ Leguminosae | |
| 41 | kakasan (Jv) | Hiptage madablota Gaert. | Malphighiaceae | |
| 42 | kanume (Ta) | Semecarpus heterophylla Bl. | Anacardiaceae | |
| 43 | kapok, kapok randu (Jv.). | Ceiba petandra (L.) Gaertn. | Bombaceae | |
| 44 | kara-benguk (Jv) | Mucuna pruriens (L.) DC. | Fabaceae/ Leguminosae | |
| 45 | kareumbi (Sn.); tutup abang (Jv.). | Omalanthus populneus (Geiseler) Pax. | Euphorbiaceae | |
| 46 | kayu sappan, secang (Jv) | Caesalpinia sappan L. | Caesalpiniaceae | brazilin |
| 47 | kedondong jawa (Jv.) | Spondias dulcis Soland ex Park | Anacardiaceae | pectin, iron, etc. |
| 48 | kedondong seberang (IN) | Spondias pinnata (L.f.) Kurz. | Anacardiaceae | citric acid, etc. |
| 49 | kejimas (Ma) | Duabanga mollucana Bl. | Punicaceae/ Lythraceae | |
| 50 | kelapa (IN) | Cocos nucifera L. | Arecaceae/ Palmae | |
| 51 | kemiri (Jv) | Aleurites molluccana Willd. | Euphorbiaceae | |
| 52 | kemukus (Jv) | Piper cubeba L.f. | Piperaceae | |
| 53 | kepayang (La), simaung (SumBar) | Pangium edule Reinw. | Bixaceae | |
| 54 | kesambi (Mk) | Schleigera trijuga Willd. | Sapindaceae | |
| 55 | kesumba (Jv.); kembang pulu (Sn.) | Carthamus tinctorius L. | Compositae/ Asteraceae | carthamin |
| 56 | kesumba keling (Jv) | Bixa orellana L. | Bixaceae | bixin |

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| No. | Vernacular Name | Scientific Name | Family Name | Chemical Constituents |
|---|---|---|---|---|
| 57 | ketapang (Jv) | Terminalia cattapa L. | Combretaceae | |
| 58 | ketimun (IN). | Cucumis sativus L. | Cucurbitaceae | |
| 59 | kitambaga (Sn) | Eugenia cuprea | Myrtaceae | |
| 60 | kunir (Jv.); kunyit (IN.) | Curcuma domestica Val. | Zingiberaceae | curcumin |
| 61 | kupula tanjung (Ac, Jv) | Mimusops elengi L. | Sapotaceae | |
| 62 | laban (Jv) | Vitex pubestus Vahl. | Verbenaceae | vitexin (?) |
| 63 | lada (Jv) | Piper nigrum L. | Piperaceae | |
| 64 | lagundi (Jv) | Vitex trifolia | Verbenaceae | vitexin (?) |
| 65 | lalupang (Mk) | Urena lobata L. | Malvaceae | |
| 66 | langkuas (Jv) | Alpinia galanga L. | Zingiberaceae | galangin, kampferid |
| 67 | lengkuas (Jv.) | Languas galanga (L.) Stuntz. | Zingiberaceae | Galangin 93, 5,7- |
| 68 | lombok merah (IN) | Capsicum annum L. | Solanaceae | |
| 69 | malaka (Sn.); kemloko (Jv.) | Phylantus emblica L. (Willd) | Euphorbiaceae | |
| 70 | manggis (IN) | Garcinia mangostana L. | Clusiaceae/ Guttiferae | mangostin |
| 71 | memplam (Jv.) | Mangifera Indica L | Anacardiaceae | euxanthic acid |
| 72 | mengkudu, pace (Jv.) | Morinda umbellata L. | Rubiaceae | morindone, alizarin |
| 73 | misoi, mesui, mesoi (Ma.) | Cryptocarya massoy (Oken) Kosterm. | Lauraceae | |
| 74 | nangka (IN) | Artocarpus heterophillus Lmk. | Moraceae | cyanomaclurin, morin |
| 75 | nawaih (Ac) | Jatropha curcas L. | Euphorbiaceae | |
| 76 | nila (Jv.); sarap (Bt.); taim (Bt., Ba.). | Indigofera arrecta Hochst. ex A. Rich | Fabaceae/ Leguminosae | kaempferitrin |
| 77 | nita, nufa (Ti.), kepuh (Jv.) | Sterculia foetida L. | Sterculiaceae | potassium (?) |
| 78 | pace (Jv.); bakudu, bengkudu (Ta.); | Morinda citrifolia L. | Rubiaceae | morindone, alizarin |
| 79 | padi (IN) | Oryza sativa L. | Poaceae/ Gramineae | |
| 80 | padi ketan (IN) | Oryza glutinosa Auct. | Poaceae/ Gramineae | |
| 81 | pala (IN) | Myristica fragrants Houtt. | Myristicaceae | myristicin |
| 82 | papasan (Mk.); kemarongan, cekli (Jv.). | Coccinia grandis L. Voigt. | Cucurbitaceae | |
| 83 | pepaya (IN) | Carica papaya L. | Caricaceae | |
| 84 | peudendang (Ac) | Passiflora foetida L. | Passifloraceae | |

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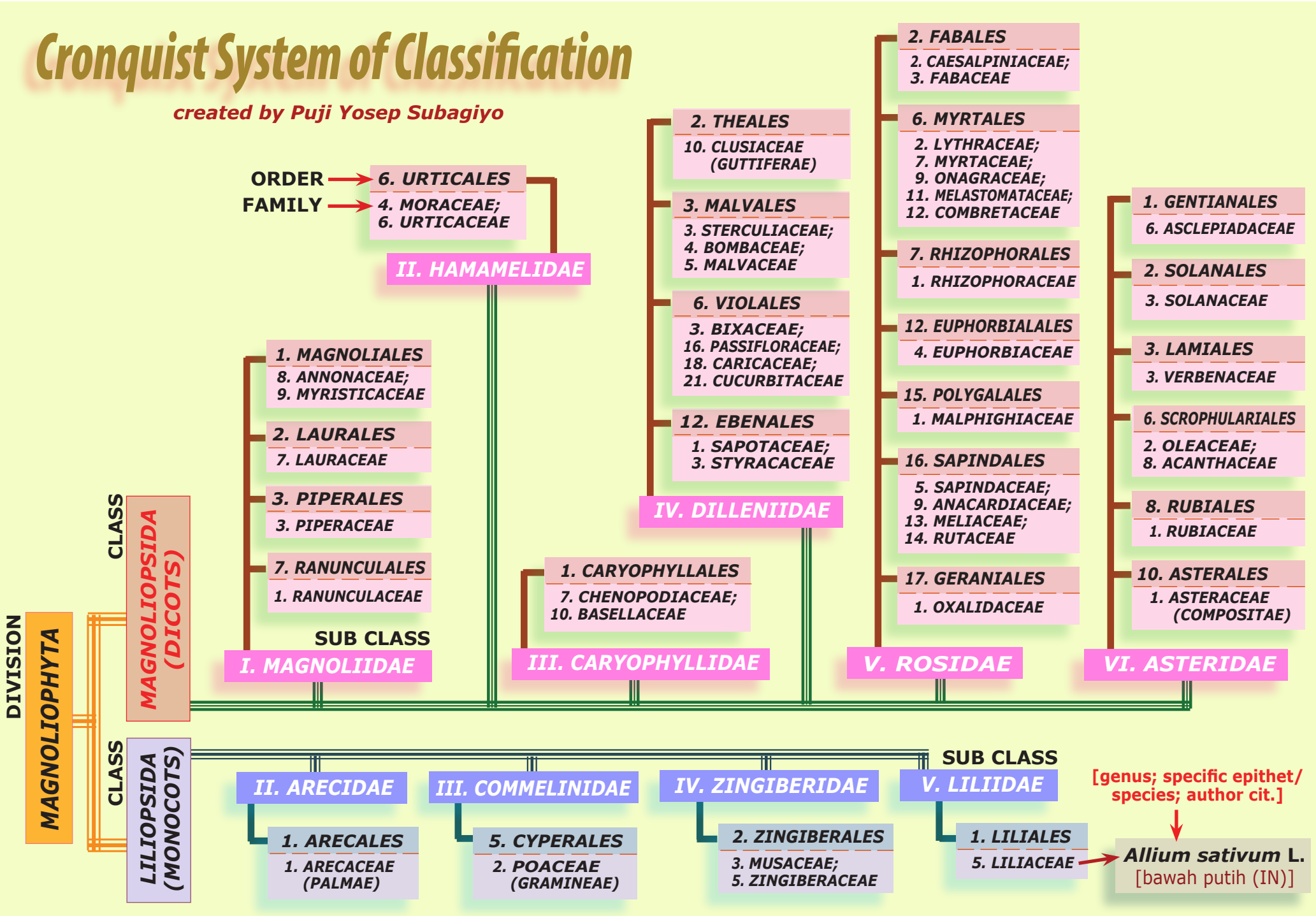
| No. | Vernacular Name | Scientific Name | Family Name | Chemical Constituents |
|---|---|---|---|---|
| 85 | pisang (IN) | Musa paradisiaca L. | Musaceae | |
| 86 | pisang kidung (Ac) | Musa nana Lour. | Musaceae | |
| 87 | pucuk ganti (Sn) | Lingustrum glomeratum | Oleaceae | crocetin (?). |
| 88 | rambutan (IN., Jv., Ma.). | Nephelium lappaceum L. | Sapindaceae | |
| 89 | roway, kacang roway (Sn.).; k. kara (Jv.) | Phaseolus lunatus L. | Fabaceae/ Leguminosae | |
| 90 | sanduduk (Bt.); sanduluk (Ba.) | Melastoma malabathricum L. | Melastomataceae | |
| 91 | sasah (Sn) | Aporosa frutescens Blume | Euphorbiaceae | Aluminum tartrat |
| 92 | sawo (Jv, IN) | Mimusops kauki L. | Sapotaceae | |
| 93 | sawo kecik, sawo (Jv., Sn.) | Manilkara kauki (L.) Dubard. | Sapotaceae | |
| 94 | sebasa (La) | Glochidion desmocarpum Hook. | Euphorbiaceae | |
| 95 | sembung (Sn, Jv) | Blumea balsamifera L. | Compositae/ Asteraceae | |
| 96 | seumpueng (Ac) | Pouzolzia indica Goud. | Urticaceae | |
| 97 | sikaso (La.); kembang bugang (Sn.) | Clerodendron celamitosum L. | Verbenaceae | |
| 98 | sirkaya, srikaya (Ac., IN) | Annona squamosa L. | Annonaceae | |
| 99 | soga jambal (Jv.), bah-ulim (Ac.) | Peltophorum pterocarpum DC. Backer ex K. | Fabaceae/ Leguminosae | tannin |
| 100 | soga tegeran, tegeran, kayu kuning (Jv.). | Maclura cochinchinensis (Lour.) Corner | Moraceae | |
| 101 | soga tingi (Jv.); tangirih (Mk.). | Ceriops tagal (Perr.) | Rhizophoraceae | |
| 102 | tarum akar [akar-tarum] (Dk.); aka sanam | Marsdenia tinctoria R.Br. | Asclepiadaceae | indigotin (?) |
| 103 | tarum-utan (Jv) | Indigofera galegoides DC. | Fabaceae/ Leguminosae | indigotin |
| 104 | temu lawak (Jv) | Curcuma xanthorrhiza Roxb. | Zingiberaceae | curcuma |
| 105 | terong (IN) | Solanum melongena L. | Solanaceae | |
| 106 | tom-cantik (Jv) | Indigofera suffruticosa Mill. | Fabaceae/ Leguminosae | indigotin |
| 107 | tom-jawa (Jv) | Indigofera tinctoria L. | Fabaceae/ Leguminosae | indigotin |
| 108 | tom-pantai (Jv) | Indigofera zollingeriana Miq. | Fabaceae/ Leguminosae | indigotin |
| 109 | tom-presi (Jv) | Indigofera guatemalensis Moc., Sesse & Cerv. ex | Fabaceae/ Leguminosae | indigotin |
| 110 | widuri (Sn) | Calotropis gigantea | Asclepiadaceae | |
| 111 | wijen (Jv.), bijen (La.) | Sesamum indicum L. | Fabaceae/ Leguminosae | |

# Cronquist System of Classification

created by Puji Yosep Subagiyo



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# BIOGRAPHICAL SKETCH


Puji Yosep Subagiyo lahir di Purworejo, Jawa Tengah. Ia adalah seorang konservator senior bersertifikasi internasional, dan sejak 1986 telah bekerja di Museum Nasional, Departemen Kebudayaan dan Pariwisata.

Pemegang *Unesco Fellowship Award* dari tahun 1989 sampai 1992 ini mendapatkan pendidikan sains konservasi di *Tokyo National Research Institute for Cultural Properties* (TNRICP), Jepang dari 1989-1990; pernah mengikuti kursus "spotting" di International Fabricare Institute (IFI) di Maryland - Amerika Serikat; serta mengikuti berbagai kursus analisis konservasi di *Conservation Analytical Laboratory* of *Smithsonian Institution* (CAL/SI) di Washington D.C., Amerika Serikat (1991-1992).

Selama periode magang di Smithsonian Institution, Subagiyo telah mengadakan kunjungan observasi di laboratorium-laboratorium museum dan lembaga penelitian di kota New York, Harrisburg, dan Washington D.C. Ia pernah ambil bagian dalam pengamatan kerusakan *pakaian astronout* di *National Air and Space Museum* (**NASA**) di Washington D.C. dan perunjukkan teknik pencelupan warna di Carnegie Mellon College, Maryland.

Subagiyo banyak melakukan penelitian aneka bahan dan teknik pembuatan tekstil tradisional, penulisan, mengikuti dan pembicara pada berbagai seminar internasional. Belakangan ini, di Studio Primastoria ia juga melayani jasa konsultasi dan konservasi tekstil, lukisan, logam, dan aneka benda etnografi.

**Puji Yosep Subagiyo** was born in Purworejo, Central Java. Since 1986, Subagiyo has worked for the National Museum of Indonesia, Ministry of Culture and Tourism.

Subagiyo has an educational background of conservation sciences of ***Tokyo National Research Institute of Cultural Properties*** (TNRICP, Japan, 1989/90). Furthermore, Subagiyo completed professional experience - for both skill development and knowledge enhancement in the field of textile conservation - at the Conservation Analytical Laboratory of the ***Smithsonian Institution*** (CAL/SI, Washington D.C., 1991/ 92) and International Fabricare Institute (IFI, Maryland District, USA, 1992). He also has taken intensive courses on wood conservation, metal conservation, textile conservation, leather conservation, dye analysis, display materials and exhibitions, and other courses in his home country and abroad.

Through research, Subagiyo has studied the gilded cloth, mordanted cloth, and metal threaded at TNRICP of Japan. Then, Subagiyo accelerated the result at CAL/SI of Washington D.C. and the National Museum of Jakarta. He studied the crocking tests for Early Synthetic Dyes, the tensile strength of 'prada' binder, the ingredient 'jangkang-kepuh' of prada, and tested the color changing of Indonesian Natural Dyes. He actively writes articles and participates in the activities relating to conservation of cultural material in national, regional or international forums.

This holder of '***Unesco Fellowship Awards***' from 1989 to 1992 has taken a great opportunity in his field of discipline in the United States of America. He visited the conservation laboratories at museums of New York City, Harrisburg and Washington D.C. (i.e. Conservation Centre of NYU, Metropolitan Museum of Arts, National Gallery, Textile Museum, etc.). He demonstrated the para-red dyeing (which is principally similar to 'mengkudu' dyeing) at Carnegie Mellon College of Maryland; and took part in the physical examination of color changing of (astronout) space-suits at Garber Facility, the National Air and Space Museum (**NASA**) at Washington D.C.

Subagiyo in his private ***Primastoria*** conservation studio offers the conservation for textiles, paintings, metals, papers and most ethnographic objects.


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