

IDENTIFICATION ON BIOACTIVE COMPOUND of MEDICINAL HERBS IN BUKIT DUABELAS NATIONAL PARK



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Background



- ❖ Pointing of TNBD has special purposes, which one is protect and preserve as well as the development of medicinal plants that are life resources of Orang Rimba.
- ❖ Based on Biotic Medika Expedition conducted by IPB in cooperation with LIPI, MOH, and UI in 1998 in Bukit Duabelas National Park identified 101 kinds of medicinal plants, 27 types of medicinal fungi and 9 species of animal with medicinal properties.
- ❖ These types of herbs are used by Orang Rimba, there is still further testing required to confirm the chemical content in them (phytochemical tests).

Result

No	Herb	Used for	Sample	Bioactive compounds
1	Keduduk	Toothache	Fruit & leaf	Flavonoid, tannin
2	Semasam	Headache	Leaf	Flavonoid, tannin, saponin, steroid
3	Goam godong	- Diarrhea - Itching exposed to caterpillars	Leaf	Flavonoid, tannin, saponin, steroid
4	Goam godong	Sprue	stem	Saponin
5	Berumbung (Dillenia excels (jack)	fever	bark	Flavonoid, tannin, saponin,
6	Akar kopu (Mimosa pigra L)	- Sprue for children - Hair fertilizer	stem	Flavonoid, tannin, steroid
7	Kelebu Gajah	sprue	bark	Flavonoid, tannin, saponin
8	Rambutan Rimba (Nephelium lappaceum L)	Fever	Leaf	Flavonoid, tannin, saponin, steroid
9	Kayu Salok (Knema cinera worb)	Sprue for children	Leaf	Flavonoid, tannin, saponin, quinon

Result

10	Timun Tikus	Bloated	Leaf	Flavonoid, tannin, saponin, steroid
11	Akar Kancil (<i>Smilax zeylanica</i> L)	Tonic	Leaf	Flavonoid, saponin, steroid
12	Puar Cacing (<i>Eltingera</i> sp)	Wormy	root	Flavonoid, saponin, steroid
13	Petaling (<i>Ochanostachys amentacea</i>)	Fever	bark	Flavonoid, saponin
14	Ganja Sayur	Appetite enhancer/seasoning	Leaf	Flavonoid, tannin, saponin, steroid
15	Rotan Cikai (<i>Daemonorops melanochaete</i>)	Swollen	Leaf	Flavonoid, saponin, steroid
16	Antui berbulu	Helps the give birth	stem	steroid
17	Rumput Keratas	Beri-beri	All part	Flavonoid, tannin, saponin, steroid
18	Sirih Kucing (<i>Piper</i> sp)	Diarrhea	Leaf	Flavonoid, tannin, saponin, steroid
19	Berisil	Kuro fever	Leaf	Flavonoid, tannin, saponin, steroid

Result

20	Akar satolu (<i>Perycamphyllus glaucus</i>)	Fever	Leaf	Flavonoid, tannin, saponin, steroid
21	Bekung	Fever	Leaf	Flavonoid, saponin, steroid
22	Akar Kuning (<i>Arcangelisia flava</i>)	Fever & Hepatitis	Leaf	Flavonoid, tannin, saponin, steroid
23	Jelatang Ayam	Bloated	Leaf	Flavonoid, tannin, saponin, steroid
24	Kayu Tutup	cough	root	Saponin
25	Cempedak (<i>Arthocarpus integer</i>)	ASI booster	bark	Flavonoid, tannin, saponin, steroid, quinon, triterpenoid
26	Tunggul buto	Tonic	Bark	Flavonoid, saponin, steroid
27	Jelatang Api	Cough	Root	Flavonoid, saponin, steroid
28	Akar Keleketai	Diarrhea	tree	Tanin, saponin, steroid

Conclution



- Based on phytochemical test, 29 samples from 28 medicinal herbs contain at least one of bioactive compounds
- Bioactive compounds that found in those samples are flavonoid, tannin, saponin, quinon, steroid and triterpenoid except alkaloid.

