The chemical composition of Amazonian plants(*)

A Catalogue, edited by setor de Fitoquímica, INPA, Manaus, Amazonas

FAMILY:

Apocynaceae

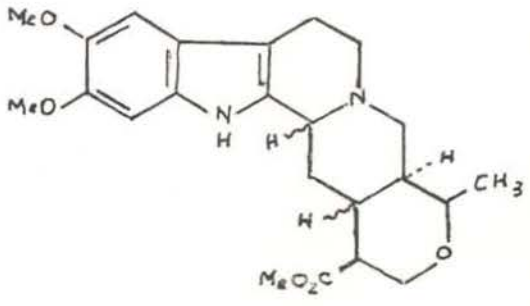
SPECIE:

Aspidosperma discolor A. DC.

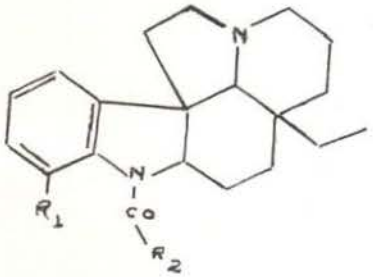
OCCURRENCE: Pernambuco and Bahia

TRUNK BARK:

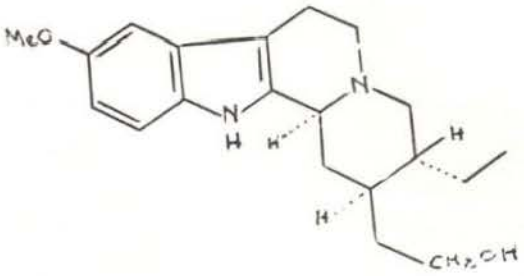
demethylaspidospermine (I)
demethoxyaspidospermine (II)
demetoxypalosine (III)
reserpiline (IV)
isoreserpiline
isoreserpiline —Ψ— indoxil
yohimbine
10-methoxydihydrocorynantheol (V)
$\Delta^{19,20}$-dehydro-10-methoxydihydrocorynantheol



(IV)



(I) $R_1 = OH$ $R_2 = CH_3$
(II) $R_1 = H$ $R_2 = CH_3$
(III) $R_1 = H$ $R_2 = CH_2CH_3$



(V)

REFERENCES:

1) Dastoor, N. and Schmid, H. *Exper.* 19, 297 (1963).
2) Ferreira, J.M.; Gilbert, B.; Owellen, R.J. and Djerassi, C., *Exper.* 19, 585 (1963)

(*) — Contributions to this catalogue, which will be continued in subsequent issues of this Journal, are invited, and should be submitted to address give above.

FAMILY:

Apocynaceae

SPECIE:

Aspidosperma polyneuron Mull. Arg.

OCCURRENCE: South of Brazil

TRUNK BARK:

normacusine — B (I)

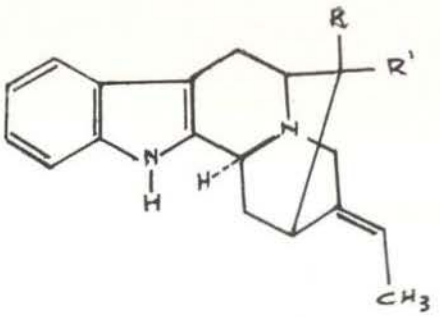
polyneuridine (II)

ROOT BARK:

aspidospermine (III)

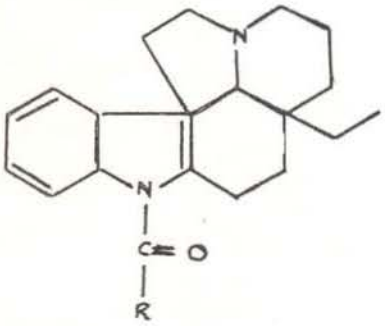
paiosine (IV)

(—) quebrachanine (V)



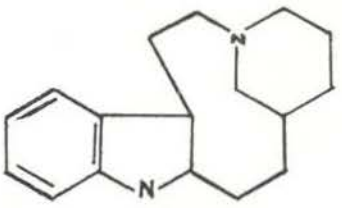
(I) R= CH_2O R'=H

(II) R= CH_2O R'=CO_2CH_3.



(III) R= CH_3

(IV) R= C_2H_5



(V)

REFERENCES:

Antonaccio, L.D.; Pereira, N.A.; Gi'bert, B.; Vorbrueggen, H.; Budzikiewicz, H.; Wilson, J.M.; Durhan, L.J. and Djerassi C., *JACS* 84, 2161 (1962).

FAMILY:

Apocynaceae

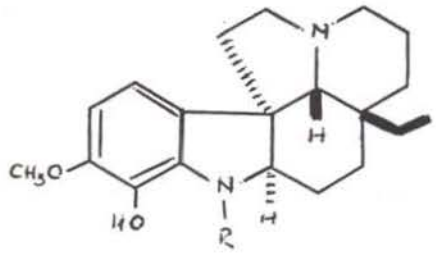
SPECIE:

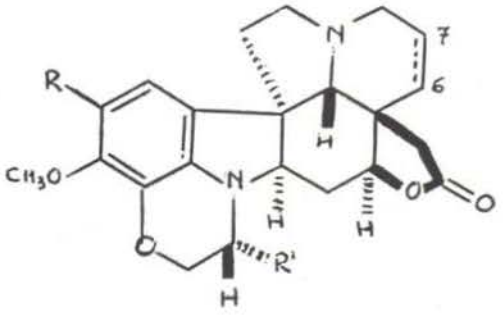
Aspidosperma obscurinervium
Azembuja.

OCCURRENCE: Manaus (AM)

BARK:

(+)—aspidocarpine (Ia)
(+)—aspidolimine (Ib)
dihydroobscurinervine (IIa)
obscurinervine (IIb)
dihydroobscurinervidine (IIc)
obscurinervidine (IId)





(Ia) R=$COCH_3$
(Ib) R=$COCH_2CH_3$

(IIa) R=OCH_3 R'=CH_2CH_3 6,7—Double bond Absent
(IIb) R=OCH_3 R'=CH_2CH_3 6,7—Double bond Present
(IIc) R=OCH_3 R'=CH_3 6,7—Double bond Absent
(IId) R=OCH_3 R'=CH_3 6,7—Double bond Present

REFERENCES:

Brown, Jr, K.S. and Djerassi, C. *JACS* 86, 2451 (1964).