TANNINIS

(Pole yellow to Red brown)

2° metabolites (non-cryst)

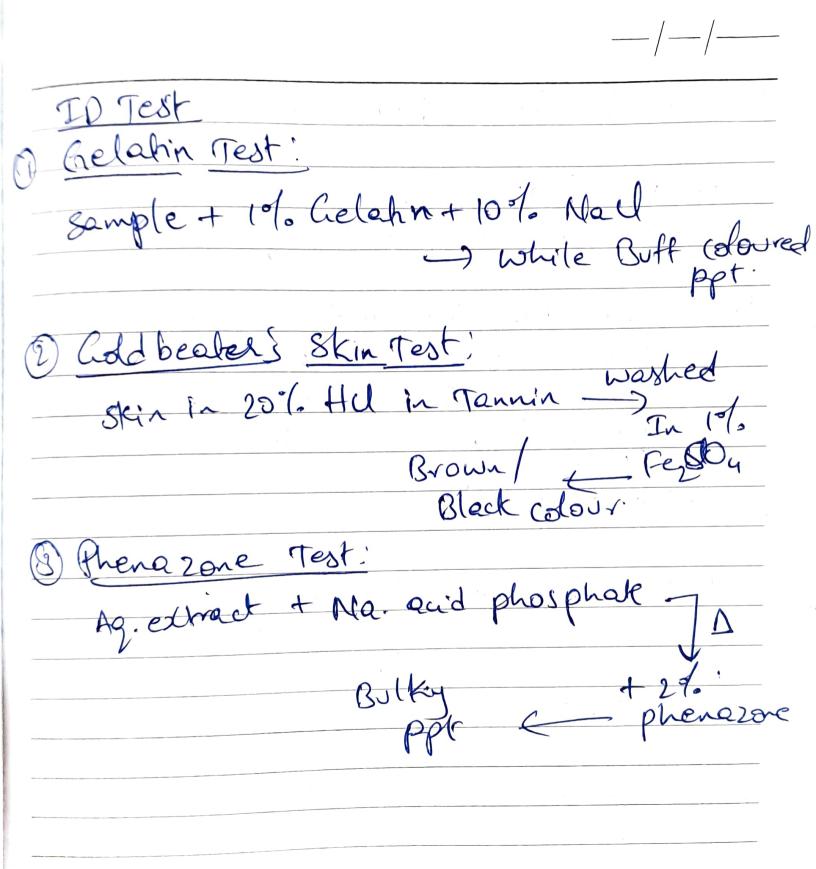
organic, non-Nz polyphenolic subs

c high nool-wt. - Antisephics, in diauthoeq - leather Industries, Ink, fabric. - Phenol Alycosides, Antioxident - Acidic & astringest taste - Soluble in water & form colloidal sol. - Ppt the proteins, as styphics (heamouthage) - Antidote in poisoned by Heavy metels Cly corides-

0 0 000

- Inhibition of lipid per oxid", plasmin I in blood urea M2 content lipologisis in fat cells:
lipolysis in fat cells:
Pseudotannis: Gallicacid
(10w md. wt) Planan-3, 4-diol.
chlorogenic acid in coffeed
Ipecarhnic acid & Ipecarinha, catechins in 6000a
in 6000
1) Hydro bysable tannins:
O Hydrolysable tannins:
Callic acid or ellagic acid.
Callic acid or ellagic acid. John dishillation
eg:-Gallo tannin Pyrogallol in Nutgall, Ande Phubalo, Clove, chestrut
Phibarb, clove, chestrut
Ellagi - oak, myrobalan, pomegranak bot

(5) Condensed Tannins -/-/-
Non-hydrolysable/Phrobabannins/ Proanthocyanidins.
- Catechin Flavan - 3, 4-diols
mineral phlobaphenes acids Dry distillation
Catechol
Towist Felly -> Brownish red Colour
eg:-Pale & Black catechu,. Creen Tea,
Wild cherry Back Circhona, Cirnamol. Back



1) Pale Catechy (Rubiaceae)
(Cambier, kattha)
(Chambier, kattha) Dried ag. extract of leaves of Uncarria gambies
C.C: catechins, Catechu fannic acid
C.C. catechins, Catechu tannic acid Flavanoids - Quelcetin
Combier fluorescin subs.
Pyragallol, (color)
Astringent, Diarthoeae.
Distack Cotechy (Cotechu nigrum)
Dried ag-extract of heart wood
de Acacia catechu (leguminosae)
(No fluorescent)
C. C: Quelcitin, Catechin
100
Kothe-cake form (0) (view-lig form catculus Tannic Qu'd-
Paperkraft

6) Tannic acid (fagacea)	
(fagacea) (halle, Blue galls)	
- 4m Nutgalls. Vee outgrowths twigs of Quercus infectoria.	
OH, Tor Gallic acid +	aluese
In Burns	4
G AMLA	,
Vit C -> 650-900 mg/100 g	
Sd. Tannins, pechin, 1e,P, C	9
C.A+ E.A + Phyllentor C	
3 ARJUNA (combretaceae)	more Calcium Co-enz QD
Triterpene glycosides, oleanolic acid pro antho B-Sitosterol	cyanids.
B-Sitostero	Paperkraft

Uses: - Heet failure, Angine, -/-/
Divretic
ASHOICA
Javara Ridice (leguminosae)
65%. Tannins heamotoxyline
ceto Sterol
Calcian Phlobapenes
Uses! - Uterine Infections Astringent
Merorhagia (excessive menstruction) Dysmerorhoea-
BAHERA (Beleure Mysobalan)
Terminalia Bellerica (Combretaceae)
C.C. 30-40%. fixed of (Polinikic, oleic Telvatria contone, 7 tinoteric) Di bria contone of Hydro certoana Tritria contone 20-25%, Tannis, phyllembin,
Paperkraft Mannika, a, E,

uses: - Hair tondic (exchive anthetmistic half ripe fruit - Purgotive full " " - Astringent. Anhremetre Ashingent