



DESINFICIENTS

Besides synthetic drugs used to combat microbial originator of diseases several natural drugs stayed in use.

Can be formally divided:

- Essential oils (mainly terpenoids)
- Phenols



BUCCO FOLIUM – LIST BUKO

MP: Species of *Barosma*: *Barosma betulina* syn *Agathosma b.*- round leaf buchu and *B. serratifolia* (Rutaceae). Low shrubs, native to area of South Africa, Cap Code

Drug: Dried leaves harvested on wildly growing plants.

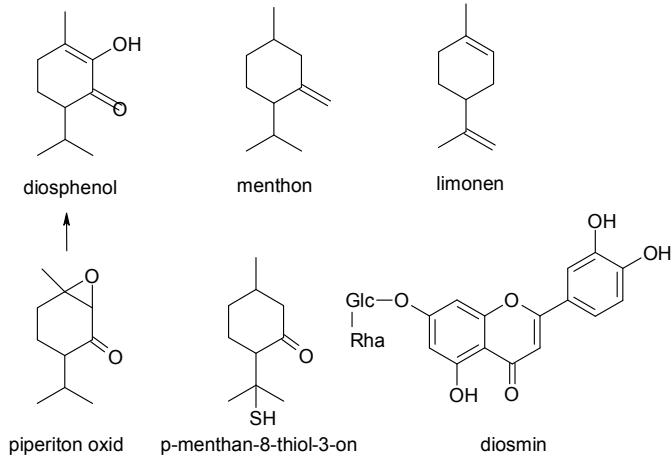
CC: flavonoids (diosmin and others), mucilage, essential oil (10-20 ml/kg, prevalent ketons with skeleton of p-menthane: menthone, isomenthone, pulegone; diosphenol). Typical odor caused by sulphur containing compound.

Usage: Infusion - urinary desinfectant (diosphenol), diuretic during urolithiasis.

Contraindiction: pregnancy



BUCCO FOLIUM – BUCHU LEAVES Content compounds



BALSAMUM PERUVIANUM – PERU BALSAM (ČL 2005)

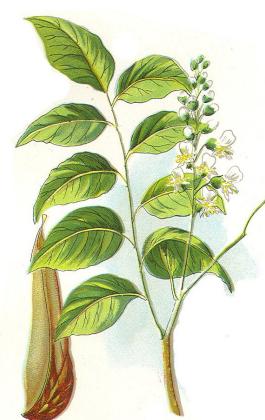
MP: *Myroxylon balsamum* var.
pereirae – Fabaceae. Tree native
to Central America

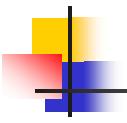
Drug: pathologic product produced
after stem wounding

CC: 45 to 70 % of esters (benzyl-
benzoate, benzyl cinnamate), 6-8
% free and bound cinnamic acid;
nerolidol, vanillin; resinoid fraction
– puroresinotannols

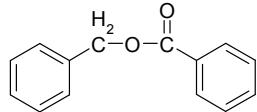
Usage: external antiseptic,
dermatologic (epitelizant,
granulant)
rarely expectorant
Cosmetics, perfumery

Contact dermatitis; cross-reaction

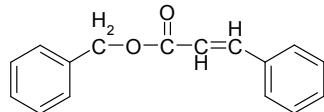




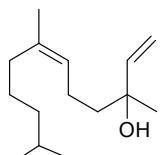
BALSAMUM PERUVIANUM – PERU BALSAM Content compounds



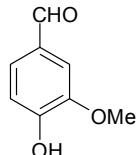
benzylester of benzoic acid



benzylester of cinnamic acid



nerolidol (peruviol)



vanillin



BALSAMUM COPAIVAE – COPAIVA BALSAM

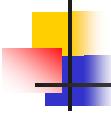
MP: *Copaifera reticulata*, *C. guayanensis* – (Caesalpiniaceae); tree native to tropical Central and South America

Drug: oleoresin flowing from core wood; from one tree 25–50 liters

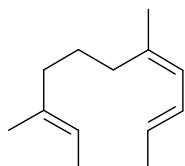
CC: essential oil (α -caryophyllene, cadinol, sesquiterpenic carbohydrates, diterpenic acids, bitter substances

Usage: genito-urinary disinfectant mainly in veterinary medicine, perfumery, soap manufacturing, technical purposes

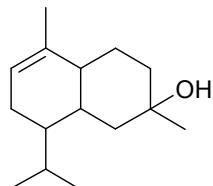




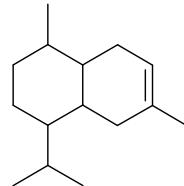
BALSAMUM COPAIVAE – COPAIVA BALSAM Content compounds



alfa-caryophyllen



cadinol



copaen



GUMMIRESINA MYRRHA - MYRHA (ČL 2005)

MP: *Commiphora molmol* –
(Burseraceae)

Drug: Air-dried hardened gummy-resin
obtained from stems and branches
after section or freely flowing out

CC:

- cca 60 % sacharids and proteins;
- cca 25-40 % of resinous acid
(commiforic acid), resens;
- 3-10 % of essential oils – terpens,
sesquiterpens, eugenol

Usage:

- desinfectant with astringent
component
- Oral and body cosmetics,
deodorants



CARYOPHYLLI FLOS – Clove flower (ČL 2005)
CARYOPHYLLI ETHEROLEUM – Clove essential oil (ČL 2005)
EUGENOL

Source: *Syzygium aromaticum* –
cloves (Myrtaceae); tree
cultivated in tropics

Drug: whole flower buds dried until
it gets red-brown color.
Contains not less than 150 ml of
essential oil / 1kg of drug.
Essential oil obtained by water
steam distillation.

CC: essential oil containing 70-85
% of eugenol, 10 % of β -
caryophyllen, aliphatic and
aromatic terpenoids



CARYOPHYLLI FLOS – clove flower (ČL 2005)
CARYOPHYLLI ETHEROLEUM – clove essential oil (ČL 2005)
EUGENOL

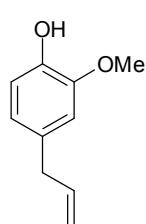
Usage:

- Topic preparation of treatment of small wounds
- Infections of oral cavity (oral hygiene)
- Spice (stomachic, aromatic)
- Indonesia – cigarettes „KRETEK“
- Cosmetics – Old Spice

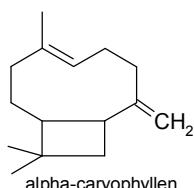
EUGENOL
CARYOPHYLLI ETHEROLEUM

In stomatology:

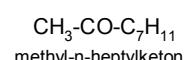
- Local anesthetic
- Desinfectant



4-allyl-2-methoxyphenol



CH₃-CO-C₅H₁₁
methyl-n-amylketon

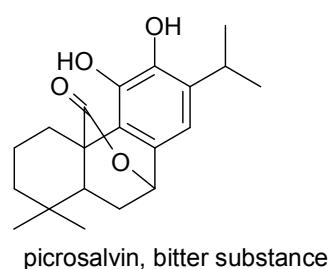
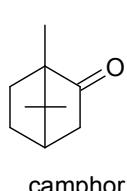
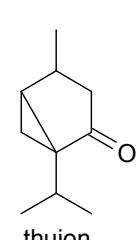
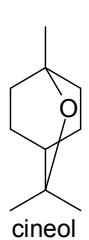


SALVIAE OFFICINALIS FOLIUM – sage leaves (ČL 2005)

MR: *Salvia officinalis* – sage
(Lamiaceae); perennial
branched woody semi-shrub
Drug: Whole or cut dried green-
grey leaves; harvested in
flowering period
CC: 10-15 ml of essential oil/kg of
drug (thujone, cineol,
camphor); flavonoids (1-3 %),
diterpenes (pikrosalvin);
triterpenes, rosmarinic acid
Usage: Desinfectant of oral cavity
(Florsalmin)



SALVIAE HERBA – SAGE LEAVES content compounds





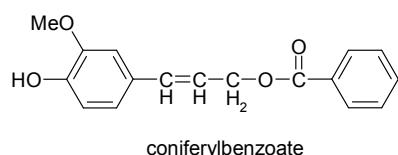
RESINA BENZOE – BENZOIN RESIN (STYRAX RESIN)

MP: *Styrax tonkinense* – styrax, *S. benzoin* – *S. sumatrana* – (Styracaceae). Trees native to eastern and southeastern Asia, but also crossing the equator in South America.

Drug: Resin flowing out from incisions into bark

CC: phenols, coniferylbenzoate, benzoic acid

Usage: Desinfectant, cosmetics



coniferylbenzoate



UVAE URSI FOLIUM – MEDVĚDICOVÝ LIST (ČL 2005)

MR: *Arctostaphylos uva-ursi* – bearberry, manzanita (Ericaceae). Perennial woody shrub of woods

Drug: Whole or cut dried leaves

CC: at least 7,0 % of arbutine phenolic glycosides (arbutin and methylarbutin), triterpenes (ursolic acid), tannins

Usage: Urinary desinfectant





UVAE URSI FOLIUM – BEARBERRY LEAVES Content compounds

