

Crude Drugs

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What are CRUDE Drugs?

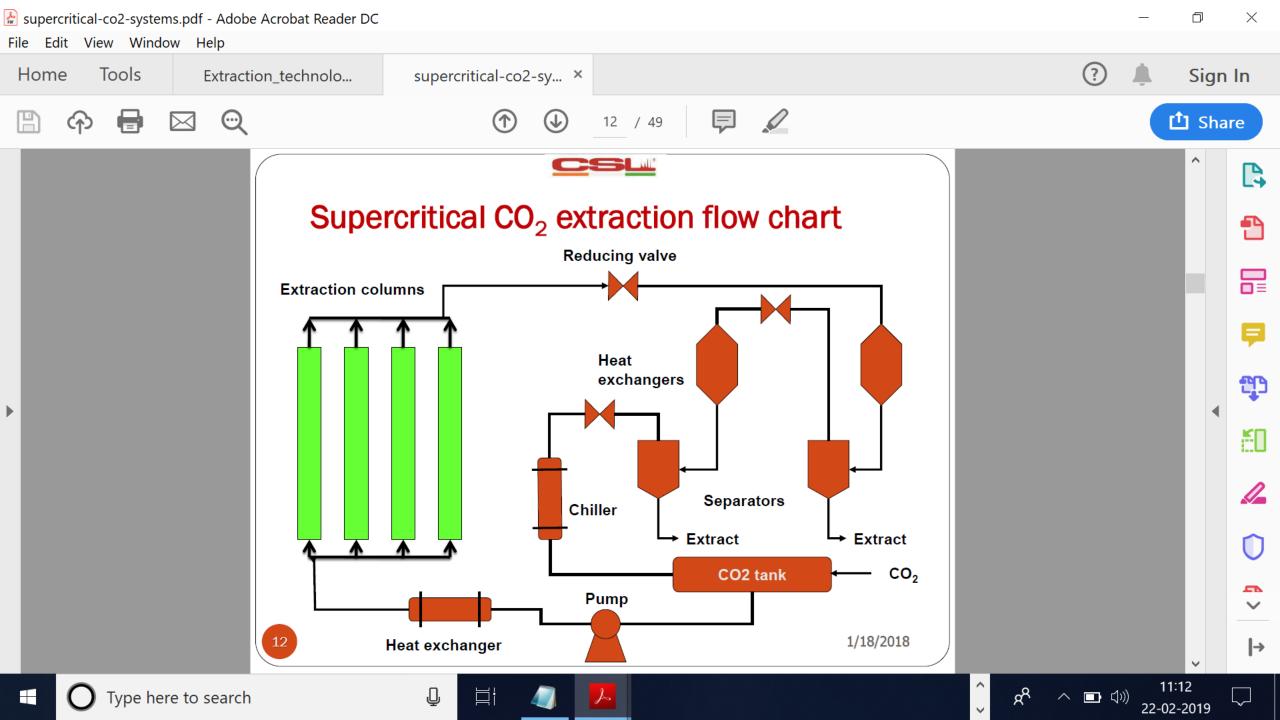
- Crude drugs are plant, animal or their parts which after collection are subjected only to drying or making them into transverse/ longitudinal slices pieces or peeling them in some cases. They exist in natural form.
- The crude drugs are divided into different groups according to the chemical nature of their most important constituent present in the drug to which the pharmacological/therapeutic activity of drug is attributed.
- Certain drugs are found to contain alkaloids and glycosides (Cinchona), Fixed oil and volatile oil (Nutmeg) of equal importance together

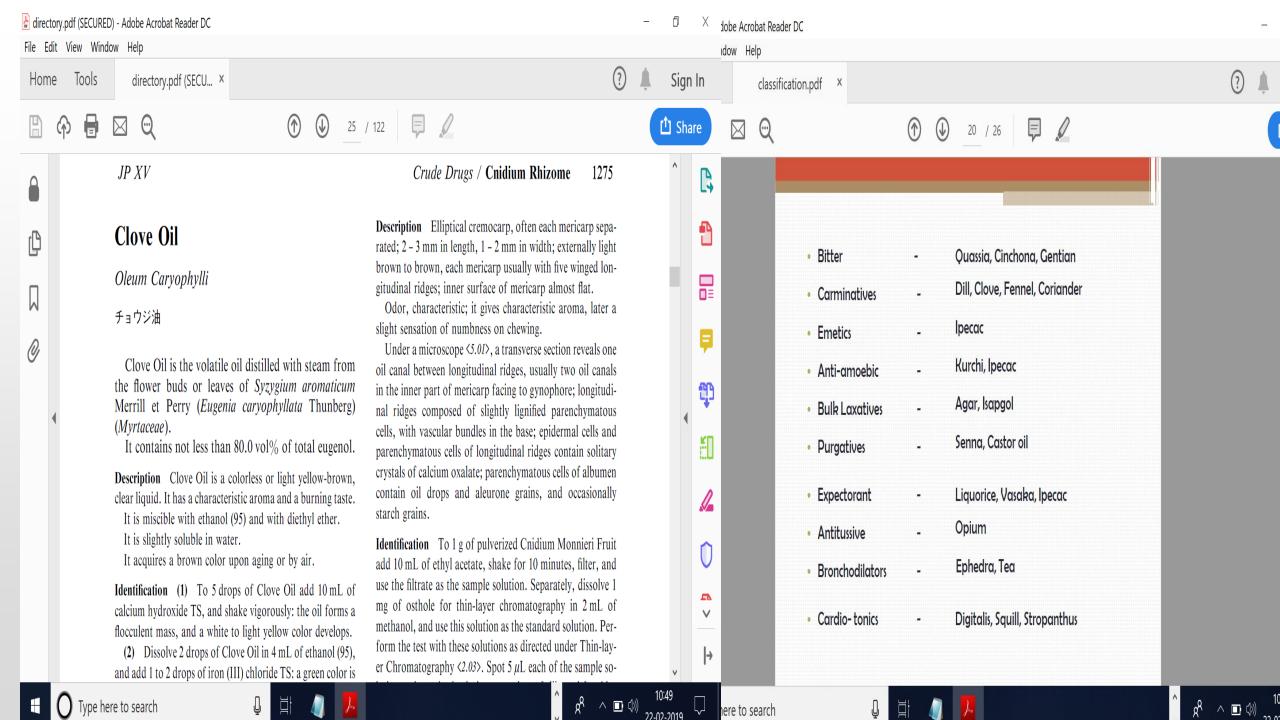
Standardized Extraction procedures for crude drugs

CLASSES OF PREPARATIONS KNOWN AS DECOCTIONS, INFUSIONS, FLUID EXTRACTS,

TINCTURES, PILULAR (SEMISOLID) EXTRACTS AND POWDERED EXTRACTS

SUPERCRITICAL FLUID EXTRACTION (SFE)





Extract Types

Standardised Extracts

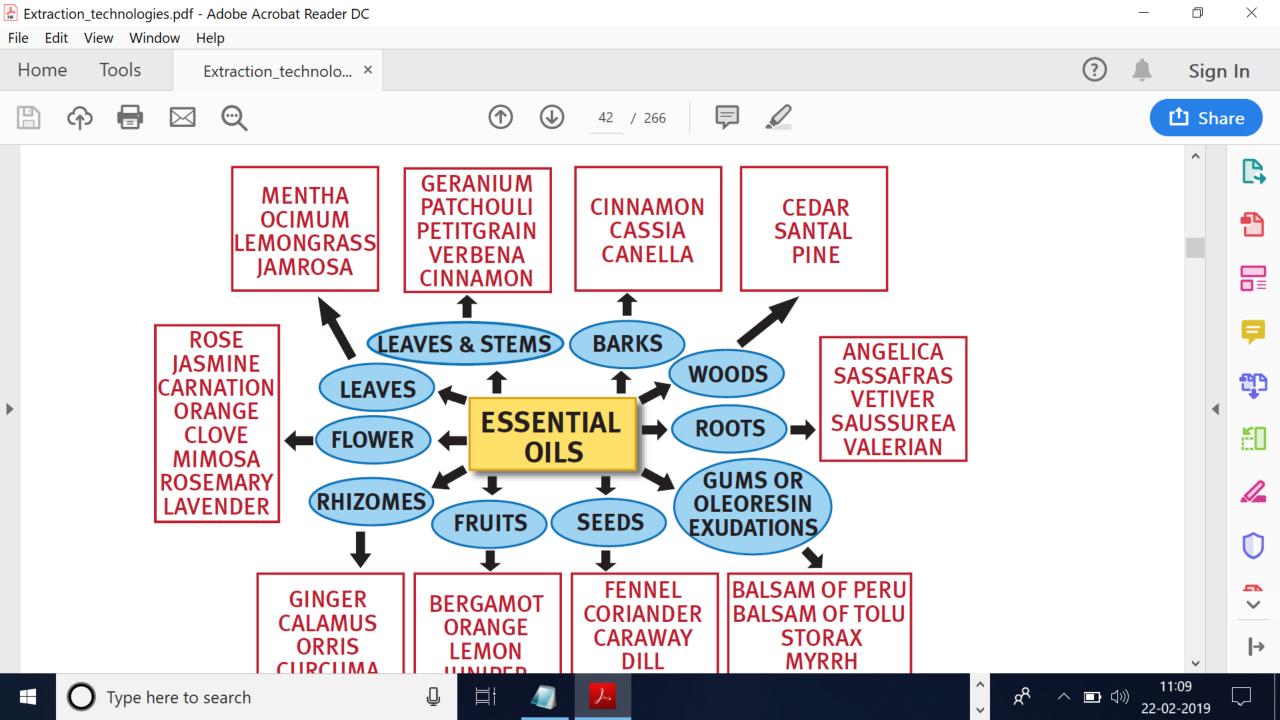
are adjusted within an acceptable tolerance to a given content of constituents with known therapeutic activity; standardization is achieved by adjustment of the extract with inert material or by blending batches of extracts.

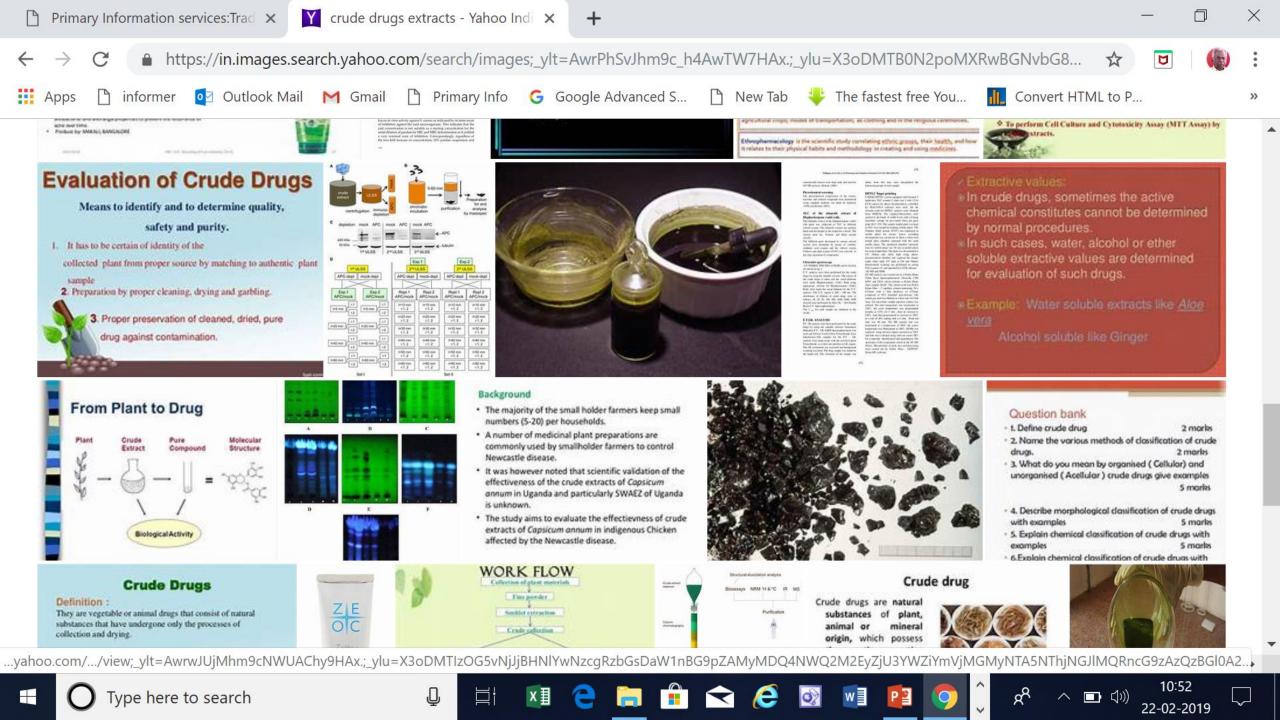
Quantified Extracts

are adjusted to a defined range of constituents; adjustments are made by blending batches of extracts.

Other Extracts

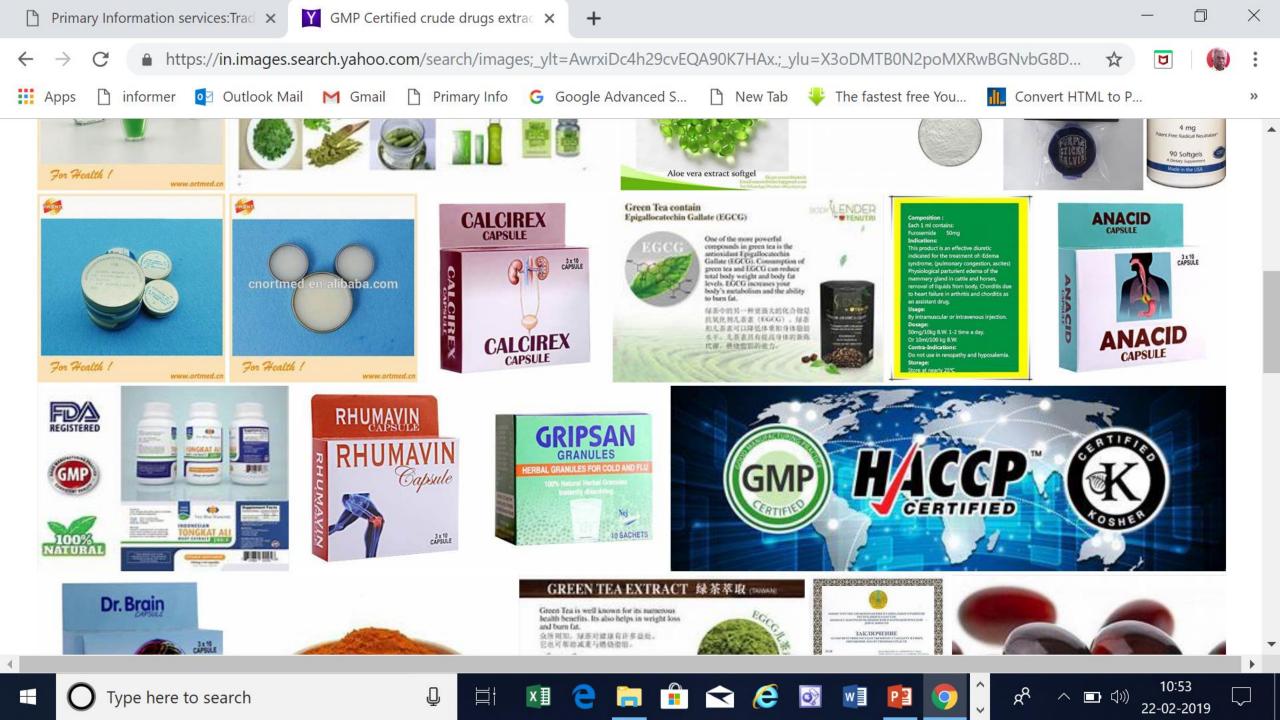
are essentially defined by their production process (state of the herbal drug or animal matter to be extracted, solvent, extraction conditions) and their specifications.





REGULATORY APPROVALS

GMP Certification
License to manufacture crude drugs
Process know-how
Quality Control



Medicinal plants (crude drugs) have a wide array of applications including medicine, food, cosmetics, insect repellent, colouring, fragrance, bath products, etc.

- Preparation of the drug are more easily formulated, more stable, palatable and elegant after extraction
- Different route of drug administration
- Injection of crude material may be undesirable and dangerous
- Storage and transport feasibility
- Extracts are less bulky and covers less space
- Smaller bulk facilitates storage and transport.

General Methods of Extraction of Medicinal Plants

1.Maceration:

In this process, the whole or powdered crude drug is placed in a container with the solvent and allowed to stand at room temperature for a period of at least 3

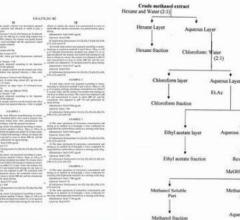






111 Paris No. 115 6,576,341 RD

- · Pure compounds are rarely prescribed
- Mostly used as simple extracts of crude drugs
- · Sugar moiety increases solubility & facilitates transport to the site of action
- · Aglycone is active part
- · Anthrone is the most effective form
- Normal flora in colon liberates aglycone to stimulate peristalsis
- . Too much anthrones in crude drugs are not suitable for use (frangula bark storing to allow (O) to anthraquinone



Introduction

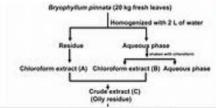
Definition

. Plant anatomy -the study of the internal structure of various parts of the plant

Applications of plant anatomy

Taxonomic application

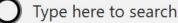




ADVANTAGES OF CULTIVATION

- It ensures quality and purity of medicinal plants.
- Collection of crude drugs from cultivated plants gives a better yield and therapeutic quality.
- Cultivation ensures regular supply of a crude drug.
- The cultivation of medicinal and aromatic plants also leads





































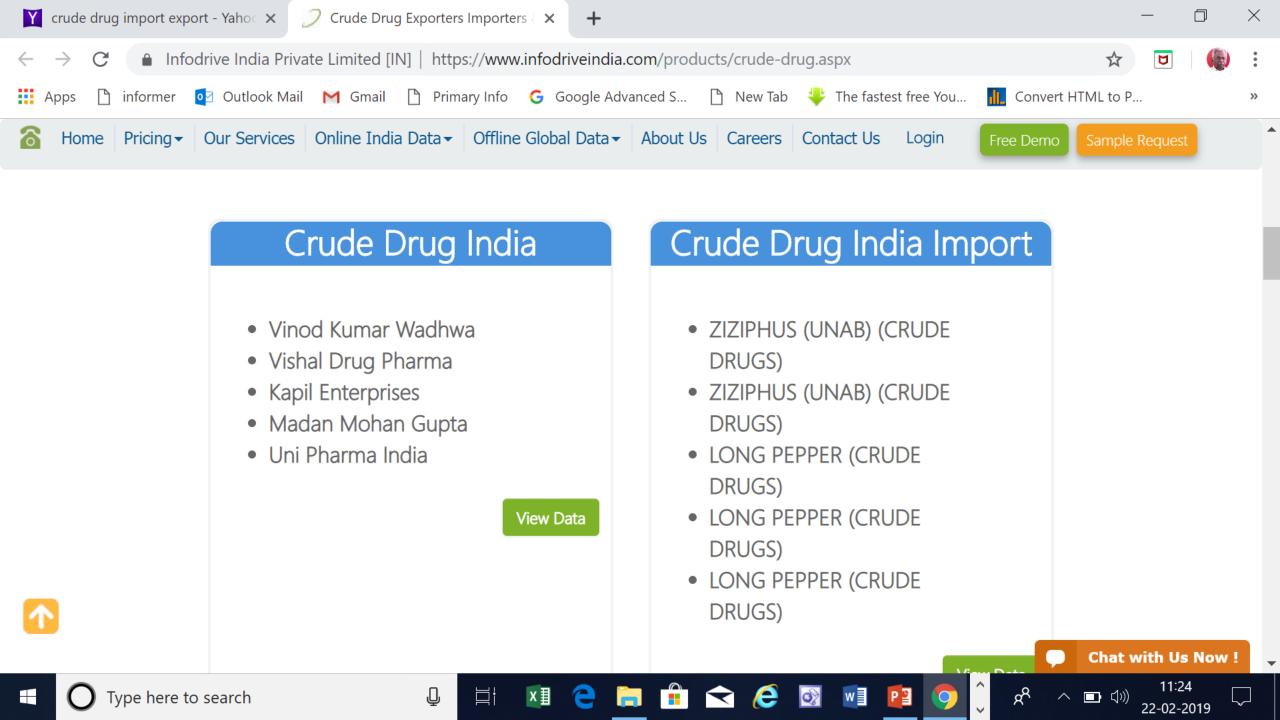




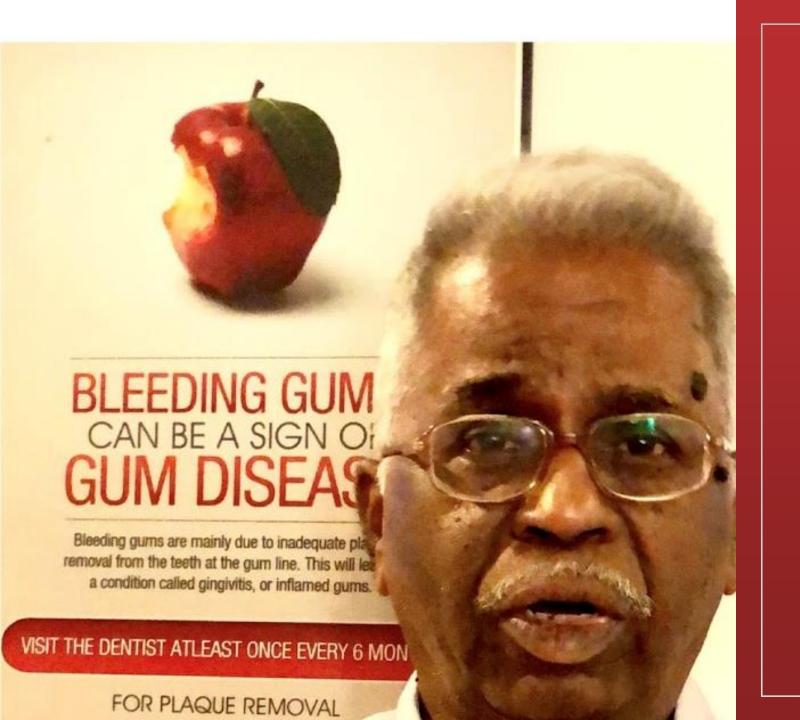


China, the world's largest producer of crude drugs, supplies 80% of the crude drugs used in Japan.

With Chinese crude drugs prices expected to log double-digit increases over the coming years, Japanese drug makers are increasingly desperate to find new sources.







QUESTIONS?

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