CURNA

Definition

The Curna is fine powder of a drug or drugs.

General method of preparation

- Drugs mentioned in the Yoga are cleaned and dried properly. They are finely powdered by pounding in a mortar with pestle and sieved. The powder is again seived through a thin piece of cloth.
- In a Yoga, where there are a number of drugs, then the drugs are separately powdered and sieved.
- Each one of the powder is weighed separately, and mixed well together.
- As some of the drugs contain more fibrous matter than others, then they are powdering and weighing separately according to the Yoga, and mixing them together as recommended.
- In industry, all the drugs are cleaned, dried and powdered, together by disintegrators. The mechanical sifters could also be used.
- The finer the powder leads to be better therapeutic effectiveness.
- Then, sugar, Camphor etc, if mentioned are separately powdered and added at the end.
- The curna is often taken with some Anupana or vehicle such as milk, butter milk Ghee, honey etc., depending upon the formulation and indication.
- Ghee and honey is added twice the quantity of powder.

Characteristics

The powder should be a fine powder.

Preservation

They should be kept in air tight containers, and generally used within two months. Hingu and Lavana are roasted, powdered and added when indicated.

Standardisation parameter of Churna

- Description (Macroscopic, microscopic)
- Loss on drying at 105 °C

- Total ash
- Acid insoluble ash
- Alcohol soluble extractive
- Water soluble extractive
- Particle size (80-100 mesh for churna, 40-60 mesh for kvatha churna)
- Powder Fineness
- Identifications by TLC/HPTLC with marker
- Test for heavy / toxic metals (Lead, Cadmium, Mercury, Arsenic)
- Microbial contamination (Total bacterial count, Total fungal count)
- Test for specific pathogens (E. coli, Salmonella spp, S. aureus, Pseudomonas aeruginosa)
- Pesticide residue (organochlorin pesticides, organophosphorous pesticides, pyrethroid)

Test for aflatoxins (B1, B2, G1, G2)

AVALEHA

Definition

Avaleha or Lehya is a semisolid preparation of drugs, prepared with the addition of jaggery, sugar-candy or Khandasari (unrefined raw white sugar) and boiled along with a prescribe liquid.

Method of preparation

These preparations generally have

- (1) Kasaya or other liquids;
- (2) Jaggey, sugar, sugar-candy or Khandasari;
- (3) Powders or pulps of certain drugs; and
- (4) Ghee or oil and honey.
 - The jaggery, sugar, sugar-candy or khandasari is dissolved in the liquid and filtered to remove the foreign particles. This solution is boiled over a moderate fire.
 - When the Paka is pressed between two fingers shows thread lines when stretched, or it sinks in water without getting easily dissolved, it should be removed from the fire.
 - Finely powered drugs are then added in small quantities and stirred continuously and vigorously to form a homogenous mixture.
 - Ghee or oil is added while the preparation is still hot and mixed well.
 - Honey is added when the preparation becomes cool and mixed well.

Characteristics

- The lehya should neither be hard nor be a thick fluid.
- When pulp of the drugs is added and Ghee or oil is present in the preparation, this can be rolled between the fingers.
- Formation of fungus over it or fermentation is among others signs of deterioration.
- When metals are mentioned, the Bhasmas of the metal are used.
- In the case of drugs like Bhallataka, purified ones alone are to be included in the preparation.
- The color and smell of the finished product depend on the drugs used.

Preservation and storage

The Lehya should be kept in glass or porcelain jars. It can also be kept in such a metal container which does not react with it. Normally, lehyas should be used within one year.

Standardization of Lehyas

The parameters such as

- Description (Color, odor, Taste etc.)
- Loss on drying at 105 °C
- Total ash
- Acid insoluble ash
- PH
- Total solid
- Reducing sugar
- Total sugar
- Fat content
- Identifications, TLC / HPTLC
- Test for heavy metals (Lead, Cadmium, Mercury, Arsenic)
- Microbial contamination (Total bacterial count, Total fungal count)
- Test for specific pathogens (E. coli, Salmonella spp, S. aureus, Pseudomonas aeruginosa)
- Pesticide residue (organochlorin pesticides, organophosphorous pesticides, pyrethroid)
- Test for aflatoxins (B1, B2, G1, G2)