



SNS COLLEGE OF PHARMACY AND HEALTH SCIENCES

Sathy Main Road, SNS Kalvi Nagar,
Saravanampatti Post, Coimbatore - 641 035,
Tamil Nadu.



CHAULMOOGRA O

SYNONYMS :

- GYNOCARDIA OIL, HYDNOCARPUS OIL.

BIOLOGICAL SOURCE :

- CHAULMOOGRA OIL IS FIXED OIL OBTAINED BY COLD EXPRESSION METHOD FROM RIPE SEEDS OF TARAKTOGENOS KURZII KING, HYDNOCARPUS ANTHELMINTIC P., H. HETEROPHYLLA K, H. WIGHTIANA, H. LAURIFOLIA, FAMILY FLACOURTRIACEAE.

GEOGRAPHICAL SOURCE :

- CHAULMOOGRA PLANTS FOUND IN MYANMAR, THAILAND, EAST INDIA IN ASSAM AND TRIBUNA ORI

DESCRIPTION :

- **COLOUR : YELLOW TO BROWNISH (LIQUID YELLOW)**
- **ODOUR : CHARACTERISTIC**
- **TASTE : SOME WHATACRID**
- **SOLUBILITY : SLIGHTLY SOLUBLE IN ALCOHOL, SOLUBLE IN CHLOROFORM, ETHER, BENZENE, CARBON DISULPHIDE.**
- **STORAGE : LIGHT AND IN COOL PLACE.**
- **DOSE : 0.3 TO 1.0 ML BY INTRAMUSCULAR SUBCUTANEOUS INJECTION.**

STANDARDS :

1. WEIGHT PER ML : 0.935 TO 0.960 G
2. ACID VALUE : NOT MORE THAN 10
3. SAP. VALUE : 195 TO 213
4. IODINE VALUE : 93 TO 104
5. SPECIFIC ROTATION : $+48^{\circ}$ TO $+60^{\circ}$
6. REFRACTIVE INDEX : 1.472 TO 1.477



METHOD OF PREPARATION :

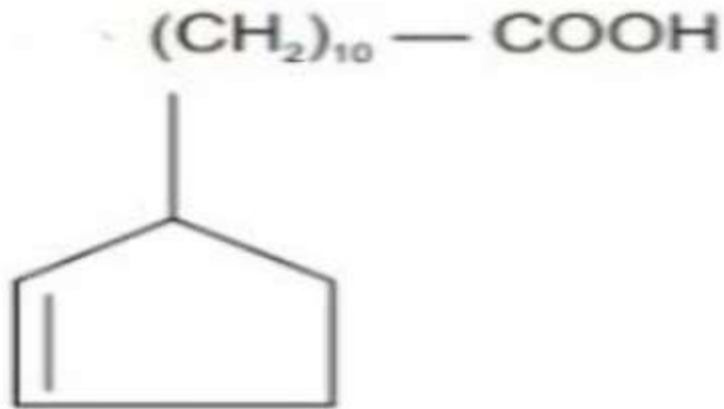
- SEEDS ARE SUB-OVOID OBTUSELY ANGULAR AND 2 CM IN LENGTH.
- SEED CONTAIN 40 – 45% FIXED OIL.

THE SEEDS ARE DECORTICATED BY MACHINE AFTER GRADING THE KERNELS, HYDRAULIC PRESS AND THE OIL OBTAINED IS FILTERED

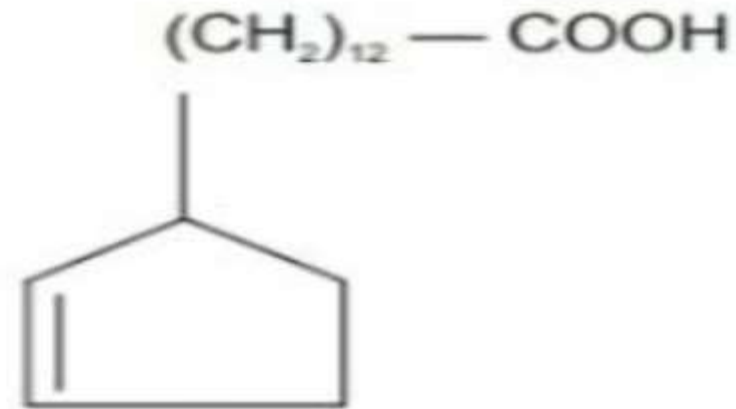


CHEMICAL CONSTITUENTS:

- IT CONTAINS ESTER OF UNSATURATED FATTY ACID OF CHAULMOOGRA ACID 27% AND HYDNOCARPIC ACID 48% AND GLYCERIDES OF PALMITIC ACID.



Hydnocarpic acid



Chaulmoogric acid

USES :

- IT GIVES STRONG BACTERICIDAL EFFECT AGAINST MYCOBACTERIUM LEPRAE AND M. TUBERCULOSIS.
- IT IS USEFUL IN THE TREATMENT OF T.B., LEPROSY, PSORIASIS, AND RHEUMATISM.
- IT IS USED EXTERNALLY ONLY.

SUBSTITUTE AND ADULTERATION :

- THE HYDNOCARPUS OIL IS REPLACED BY ETHYL ESTERS AND SALTS OF HYDNOCARPIC AND CHAULMOOGRIC ACID.