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TECHNICAL DATA SHEET

Fecha revisión:

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5.0

94069-17-ALPHA ESTRADIOL

1. IDENTIFICATION OF THE SUBSTANCE OR PREPARATION.

1.1 Identification of the substance or preparation

Name: 17-Alpha estradiol

Bulk code: 94069

1.2 Synonyms

Estradiolum 17 alpha; 1,17-Dihydroxyestratrien; α -Estradiol.

2. DESCRIPTION

Appearance: Crystalline powder.

Colour: White.

Smell: Odourless

3. COMPOSITION/INFORMATION ON COMPONENTS.

Formula: C₁₈H₂₄O₂

Molecular weight: 272.4 g/mol

4. PHYSICO-CHEMICAL DATA.

See detailed specifications in analysis report.

Solubility: Insoluble in water; soluble in alcohol, acetone and aqueous alkali hydroxide solutions. Slightly soluble in chloroform, ether and vegetable oils.

5. PROPERTIES/USES.

ACTIVE PHARMACEUTICAL INGREDIENT.

17-alpha estradiol is 25 times less powerful than its epimer 17-beta estradiol. It is mainly used to treat androgenetic alopecia, based on the fact that 17-alpha estradiol inhibits the enzyme 5-alpha reductase, which is responsible for the passage of the male hormone testosterone to that of its active form, 5-alpha-dihydrotestosterone. High 5-alpha-dihydrotestosterone production means it will accumulate in the hair follicles and their telogen cycle will increase, causing quicker hair loss and atrophying the hair follicles.

It is used topically in the long-term treatment of hirsutism and androgenetic alopecia, both male and female, transporting in hydroalcoholic solutions (alone or associated with other



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drugs like capillary stimulants, e.g. Minoxidil) group B vitamins, tripeptides, corticoids, keratolytics and other androgenic agents, such as progesterone, spironolactone, cimetidine, etc., extending its use for several months. In certain cases, seborrhoea also improves.

6. DOSAGE.

Topical use: 0.02 – 0.1%

7. REMARKS.

STORAGE:

Store at room temperature ($25\pm 2^{\circ}\text{C}$), in a cool, dry place, away from sunlight, in a tightly closed container.

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8. BIBLIOGRAPHY.

Pharmaceutical Monographs. COF Alicante, 1998.