

October 2022

Public assessment summary report

Name of the Finished Pharmaceutical Product



Droxiderm 10 mg/g cream

Manufacturer of the Finished Product

Y.S.P. INDUSTRIES (M) SDN BHD Lot 3, 5 and 7 jalan p/7, section 13, Kawasan perindustian bandar baru bangi, 43000 kajang, selangor darul ehsan, Malaysia Hydrocortisone acetate

Active Pharmaceutical Ingredient(s) (API)

1. Introduction

Based on in depth review of quality, safety and efficacy data, the authority granted a marketing authorization for Droxiderm 10 mg/g cream, manufactured by Y.S.P. INDUSTRIES (M) SDN BHD, Malaysia . The active ingredient of Droxiderm 10 mg/g cream is Hydrocortisone acetate Hydrocortisone is in a class of medications called glucocorticoids

ATC code H02AB09.

The product is indicated for;

The relief of the inflammatory and pruritic manifestations of corticosteroid-responsive dermatoses.

A compressive description of the indications and posology is given in the SmPC.

2. Assessment of quality

Active pharmaceutical Ingredient (API)

INN name: Hydrocortisone acetate Chemical name: 1 l β, 17-dihydroxy-3, 20-dioxopregn-4-en-21-yl acetate

The active substance is white or almost white crystalline powder. It is insoluble in water, slightly soluble in ethanol and chloroform.

The proposed manufacturing process has been adequately described; critical steps and accompanying in-process controls have been defined to ensure quality of the final compound. In-process controls performed during the synthesis are suitable to control the reaction progress. Appropriate specifications for starting materials, solvents and reagents have been established.

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Evidence of the structure has been confirmed by various methods. Potential impurities originating from starting materials, intermediates, by-products, and degradation products have been discussed in relation to their origin and potential carry-over into the final drug substance. Residual solvents and heavy metals are routinely controlled.

The substance complies with the requirements of the Ethiopian medicine registration guideline for potential impurities.

The specifications reflect all relevant quality attributes of the active substance and were found to be adequate to control the quality of the drug substance. Testing methods are adequately drawn up and sufficiently validated. The reference materials used by the active substance manufacturer and the drug product manufacturer for the control of the substance are adequately characterised. Batch analysis data justify the limits, indicate the good performance of testing methods and demonstrate the batch to batch consistency of the production.

Stability data have been obtained. The data show the substance to be stable. Based on the data submitted appropriate retest periods and storage conditions have been set. GMP compliance of the API manufacture is demonstrated by document review.



Finished pharmaceutical product (FPP)

Pharmaceutical development and manufacture:

The aim of the pharmaceutical development was to develop Droxiderm 10 mg/g cream generic version to the reference innovator product.

A satisfactory package of data on development pharmaceutics has been presented. Brief discussion on reasons for inclusion and quantity of excipients has been provided.

The compositions and the pharmaceutical tests evaluated during development of the final Formulation is included in the documentation.

As a result of development studies product with the following composition, appearance and

Packaging was obtained. The used excipients were: Butylated Hydroxyanisole, Butylated, Hydroxytoluene, Stearic Acid, Beeswax, Cetyl Alcohol, Dimethylpolysiloxane, Mineral Oil, Propyl Paraben, Methyl Paraben, Glyceryl Monostearate, Propylene Glycol, Polysorbate 80, Triethanolamine, Xanthan Gum, Hydroxyethyl Cellulose and Purified Water. All excipients used comply with their respective USP, JP or BP monographs.

Droxiderm 10 mg/g cream is a white to off-white color cream.

With regard to impurity profile, the product is shown to be similar to the reference product. A description and flow chart of the manufacturing method has been provided. Appropriate in-process controls are included in the manufacturing process. Satisfactory batch formulae were also presented. GMP compliance of the manufacturing site has been demonstrated.

Specifications:

The finished product specification is satisfactory. The acceptance criteria have been justified with respect to conventional pharmaceutical requirements as prescribed in the relevant dosage form monograph of USP-39 for API and in-house standards for finished products specification. Appropriate control strategy was selected. The test methods have been described and have been adequately validated, as appropriate. Batch data have been provided and complied with the specification. Certificates of analysis for three productions are presented. Certificates of analysis were also provided for the working standard used.



The container closure system

Droxiderm 10 mg/g cream is a white to off-white color cream packaged in Aluminium tube of 15g pack sizes

Stability testing:

It is confirmed that the finished product stability studies were conducted in the container closure system proposed for the marketing of the product in accordance with the current medicine registration guideline of Ethiopia.

Based on the stability study results, a shelf-life of 36 months with storage conditions; "*Keep in an airtight container; Store at temperature below 30°C. Protect from light and moisture*" was proposed. The product stability testing data support the current shelf life and storage conditions of the product. Therefore, shelf life and storage statement were considered acceptable for Droxiderm 10 mg/g cream Assessment of bioequivalence

Evidence for bioequivalence study for external preparations is not required as per the Ethiopian medicine registration guideline.

3. Conclusion

Based on assessment of data on quality, safety and efficacy of the product, it is considered that the benefit–risk profile of Droxiderm 10 mg/g cream manufactured by Y.S.P. INDUSTRIES (M) SDN BHD, Malaysia is acceptable for the following indication(s) in:- The relief of the inflammatory and pruritic manifestations of corticosteroid-responsive dermatoses.

