GRAYCARY

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September 30, 2003

<u>VIA FEDERAL EXPRESS, EMAIL & FACSIMILE</u>

Dockets Management Branch Food and Drug Administration 5630 Fishers Lane Room 1061 (HFA-305) Rockville, MD 20852

Re: Comments on ANDA Suitability Petition CP 2003P-0279

Request for a Change in Dosage Form from a Cream to a Topical Solution for Fluocinolone Acetonide, Hydroquinone and Tretinoin

The Petition Should be Denied - Investigations Must Be Conducted To Demonstrate The Safety And Effectiveness Of The Proposed Change In Dosage Form

Dear Sir/Madam:

I am writing on behalf of our client, Hill Dermaceuticals, Inc., to provide comments on the above referenced ANDA Suitability Petition requesting a change in dosage form from a cream to a topical solution for a topical combination product containing Fluocinolone Acetonide, Hydroquinone and Tretinoin, 0.01%, 4% and 0.05% w/w, respectively. The approved reference listed drug is Hill's TRI-LUMA® Cream, NDA 21-112. The proposed change in dosage form raises some significant clinical safety and effectiveness issues that have not been addressed by the Petitioner in the Suitability Petition. The Petition should be denied since investigations must

be conducted to demonstrate the safety and effectiveness of the proposed change in dosage form.

The basis for Hill's position is set forth below.

Background. TRI-LUMA® Cream is approved for the indication of short-term treatment of moderate to severe melasma of the face, in the presence of measures for sun avoidance, including the use of sunscreens. As you know, melasma is a skin condition that is manifested by dark (hyper pigmented) spots on the facial skin, especially on the cheeks and forehead. This condition usually happens with hormone changes.

Labeling Precautions Raise Issues About the Safety of a Topical Solution. The current approved package insert and patient medication guide for TRI-LUMA® Cream contain the following information in the PRECAUTIONS sections:

Application of TRI-LUMA® Cream should be kept away from the eyes, nose or angles of the mouth because the mucosa is much more sensitive than the skin to the irritant effect. If local irritation persists or becomes severe, application of the medication should be discontinued and the health care provider consulted. Allergic contact dermatitis, blistering, crusting, and severe burning or swelling of the skin and irritation of the mucous membranes of the eyes, nose and mouth require medical attention.

If the medication is applied excessively, marked redness, peeling or discomfort may occur.

The proposed change in dosage form from a cream to a topical solution raises safety issues that have not been addressed by the Petitioner. As the Agency well knows, the pharmaceutical characteristics of a topical solution dosage form include properties that affect the fluidity and viscosity of the product and the ease of spreadability in comparison to a cream. It will be much more difficult for a patient to control the application of a topical solution to the face to prevent it from coming into contact with the mucous membranes of the eyes, nose and mouth. As noted in the **PRECAUTIONS** section of the labeling, contact of the drugs with the mucous membranes of the eyes, nose and mouth can cause irritation and other adverse events. The Petitioner must conduct studies to demonstrate the safety of the topical solution dosage form.

The **PRECAUTIONS** section of the labeling also contains a statement that if the medication is applied excessively, marked redness, peeling or discomfort may occur. Given the pharmaceutical properties of a topical solution, it will be much more difficult for a patient to control the amount of medication in the topical solution dosage form that is applied to the face. This too can contribute to adverse effects. The Petitioner has not addressed this issue in the Petition, nor has the Petitioner addressed the frequency of dosing to effect therapeutic equivalence to the listed drug. Dosing frequency with a topical solution with known irritants will greatly affect adverse reactions.

In addition, excipients commonly used as a vehicle in topical solutions contain materials that can be irritating such as PEG, alcohol and citric acid. The Petitioner has not identified the excipients to be used in the proposed topical solution formulation. The Petitioner must conduct safety trials to fully characterize the safety profile of the topical solution dosage form.

Based upon the above, the Petition should be denied since investigations must be conducted to demonstrate the safety of the proposed change in dosage form.

The Change in Dosage Form to a Topical Solution Has the Potential to Impact the Pharm/Tox Profile of the Triple Combination

The Petitioner is proposing to change the dosage form to a topical solution; such a change has the potential to impact the percutaneous absorption of each of the individual components.

The Petitioner must be required to conduct preclinical studies to demonstrate that the change in dosage form has no impact on carcinogenicity, mutagenicity and teratogenicity.

The Change in Dosage Form to a Topical Solution Has the Potential to Impact the Safe and Effective Dose of Each Ingredient of the Triple Combination

As previously noted, such a change in dosage form has the potential to impact the percutaneous absorption of each of the individual components. The Petitioner must demonstrate that the change in dosage form does not have an impact on the safe or effective concentration of each ingredient in the combination.

The Petitioner Has Not Addressed How to Establish the Bioequivalence of the Topical Solution Dosage Form to the Currently Approved Reference Listed Drug, TRI-LUMA® Cream

The Petitioner has failed to include any information in the Petition on how to establish the bioequivalence of the topical solution dosage form to the currently approved reference listed drug, TRI-LUMA® Cream. Given the proposed change in dosage form, a study must be conducted to characterize the percutaneous absorption of tretinoin, hydroquinone and fluocinolone acetonide into the systemic circulation. While percutaneous absorption was very minimal with TRI-LUMA® Cream, it is unknown with the change in dosage form.

Since the approved reference listed drug, TRI-LUMA® Cream is intended for its local effect, in order to establish the bioequivalence of a topical solution dosage form, a study with clinical endpoints must be performed. Since the proposed change in dosage form could impact the safety and effectiveness of the proposed product, the Petitioner should be required to demonstrate the superiority of the proposed triple combination topical solution against various dyads in terms of efficacy at the end of 8 weeks. The proposed topical solution dosage form must also be of equal effectiveness in terms of change in melasma severity when compared to treatment with the reference listed drug, TRI-LUMA® Cream, at the end of 8 weeks of treatment. The proposed dosage form must also be studied in terms of effectiveness for the treatment of melasma after 8 weeks of use, as well as safety with use for longer than 8 weeks.

The Petitioner Has Not Addressed Monitoring the Unintended Usage in Pregnancy and Provide Measures on How This Can be Reduced

Since one of the ingredients in combination is tretinoin, which is a known teratogen, the Agency has required applicants to monitor the unintended usage of the drug in pregnancy and provide measures on how unintended exposure to the drug during pregnancy can be reduced.

The Petitioner has not addressed this matter and must be required to do so.

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In conclusion, the proposed change in dosage form from a cream to a topical solution raises some significant clinical safety and effectiveness issues that have not been addressed by the Petitioner in the Suitability Petition. The Petition should be denied since investigations must be conducted to demonstrate the safety and effectiveness of the proposed change in dosage form.

In addition, in any new drug application submitted for the proposed product, the Petitioner must be required to (1) characterize the percutaneous absorption of tretinoin, hydroquinone and fluocinolone acetonide into the systemic circulation; (2) demonstrate the safety of the proposed dosage form; (3) demonstrate the superiority of the proposed triple combination topical solution against various dyads in terms of efficacy at the end of 8 weeks; (4)

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demonstrate equal effectiveness in terms of change in melasma severity when compared to

treatment with the reference listed drug, TRI-LUMA® Cream at the end of 8 weeks of treatment;

and (5) monitor the unintended usage of the drug in pregnancy and provide measures on how

unintended exposure to the drug during pregnancy can be reduced.

If you have any questions or need any additional information, please contact me at (202)

238-7749.

Sincerely yours,

David L. Rosen, R.Ph., J.D.

Enclosure: TRI-LUMA® Cream Package Insert and Approval Letter

cc:

Jonathan K. Wilkin, M.D.

Director, Division of Dermatological and Dental Drug Products

Mr. Jerry Roth

President

Hill Dermaceuticals, Inc.

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TRI-LUMA™ Cream

(fluocinolone acetonide 0.01%, hydroquinone 4%, tretinoin 0.05%)

Read this information carefully before you begin treatment. Read the information you get whenever you get more medicine. There may be new information. This information does not take the place of talking with your doctor about your medical condition or your treatment. If you have any questions about TRI-LUMA (try-LOOM-ah), ask your doctor. Only your doctor can determine if TRI-LUMA is right for you. What is the most important information I should know about TRI-LUMA Cream?

Use of TRI-LUMA Cream in pregnant women may carry the chance of having birth defects in the baby. Tell your doctor if you are pregnant, may be pregnant, or plan to become pregnant. Your doctor will talk with you about the benefits and risks of using TRI-LUMA during pregnancy to help decide if the benefits for you are greater than the risks. You may decide to delay treatment until after your baby is born. If you become pregnant while taking TRI-LUMA Cream, tell your doctor right away. You should discuss the chances that your baby may be harmed. Using TRI-LUMA Cream early in pregnancy may be more likely to produce birth defects then using It later in pregnancy.

likely to produce birth delects than using it later in pregnancy. What is TRI-LUMA Cream? TRI-LUMA (try-LOOM-ah) Cream is a medicine with three active components. You put TRI-LUMA Cream on your face to treal a skin condition called melasma. Melasma consists of dark (hyperpigmented) spots

on facial skin, especially on the cheeks and forehead. This condition usually happens with hormone changes

TRI-LUMA Cream is for SHORT-TERM (up to 8 weeks) treatment of moderate to severe melasma of the face. It is NOT FOR LONG-TERM (more than 8 weeks) or maintenance (continuous) treatment of melasma. Milder forms of melasma may not need treatment with medicine. Melasma can also be managed by staying out of the sun or by stopping the use of birth control methods that involve hormones.

In studies, after 8 weeks of treatment with TRI-LUMA Cream, most patients had at least some improvement. Some had their dark spots clear up completely (38% in one study and 13% in another). In most patients treated with TRI-LUMA Cream, their melasma came back after treatment. If the underlying cause of melasma, such as the use of certain birth control pills or loo much exposure to sunlight, are not removed, melasma will come back when you stop treatment. TRI-LUMA Cream may improve your melasma, but it is NOT a cure.

Who should not use TRI-LUMA Cream?

For External Use Only.

Do not use TRI-LUMA if you are allergic to the medicine or any of its ingredients. See the end of this leaflet for a list of ingredients.

Remove this portion before dispensing

What should I tell my doctor before taking TRI-LUMA? If you are pregnant, think you are pregnant, plan to be pregnant or are nursing an Infant, tell your doctor. Your doctor will decide with you whether the benefits in using TRI-LUMA Cream will be greater than the risks. If possible, delay treatment with TRI-LUMA Cream until after the baby is born. Tell your doctor about all the other medicines and skin products you use, including prescription and non-prescription medicines, cosmetics, and supplements. They may make your skin more sensitive to sun-

light.

How should I use TRI-LUMA Cream?

TRI-LUMA Cream should be used as instructed by your doctor. To help you use the medicine correctly, follow these steps:

· Gently wash your face with a mild cleanser. Don't use a wash cloth to apply the cleanser, just your fingers. Rinse and pat your skin dry.

Apply TRI-LUMA Cream at night, at least 30 minutes before bedtime.
 Put a small amount (pea sized or 1/2 inch or less) of TRI-LUMA Cream on your fingertip. Apply a thin coat onto the discolored spot(s), include about 1/2 inch of normal skin surrounding the affected area. After you have used the medicine for a while, you may find that you need slightly less to do the job.
 Rub the medicine lightly and uniformly into your skin. The medicine should become invisible almost at

once. If you can still see it, you are using too much. Keep the medicine away from the corners of your nose, your mouth, eyes and open wounds. Spread it away from those areas when applying it.

Do not use more TRI-LUMA Cream or apply it more often than recommended by your doctor. Too much

TRI-LUMA Cream may irrilate your skin, waste medicine, and won't give you laster or better results.

• Do not cover the treated area with anything after applying TRI-LUMA Cream.

• If your skin gets too irrilated, stop using TRI-LUMA Cream, and let your doctor know.

To help avoid skin dryness, you may use a moisturizer in the morning after you wash your face.
 You may also use a moisturizer and cosmetics during the day.
 Use a sunscreen of at least SPF 30 and a wide-brimmed hat over the treated areas. It requires only a small

amount of sunlight to worsen melasma. Melasma can get worse even it you don't get sunburn.

Only your doctor knows which other medicines may be helpful during treatment, and will tell you about them if needed. Do not use other medicines unless your doctor approves them.

If you get sunburned, stop using TRI-LUMA Cream until your skin is healed.

After stopping TRI-LUMA treatment, continue to protect your skin from sunlight.

What should I avoid while using TRI-LUMA Cream? Sunlight or ultraviolet light. Too much natural sunlight or artificial sunlight from a sunlamp can cause sunburn. Dark skin patches may become darker when the skin is exposed to sunlight. You don't have to

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Cream in at least 1% or more of Patients (N=161)

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have a sunburn to make your melasma worse.

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Galderma Laboratoria, L.P. Fort Worth, TX 78177 USA Manipacures by: ARI Laboratories by: ARI Laboratories, L. Sanford, FL 22773 USA 20011-0102 Revised: January 2002

NDC 0299-5950-30. Storage: Keep lightly closed.

Store at controlled mon temperature 68" to 77°F (20°-25°C)

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al thats involving TRI-LUMA Cream in the trainment of facial metasma, women of child-bearing potential teatineth only after having had a negative programory test, and used effective birth control measures exapy. However, I S woman became prepared during treatment with TRI-LUMA Cream. Most of the youtcomes have not been howen. Three woman grow birth to apparently healthy bables, One pregnantimized premalurely, and another ended in miscranged and program the premalurely and another ended in miscranged and the pregnantiple of programs and another ended in miscranged and premalurely and another ended in miscranged the programs of the state of the pregnantiple of substances and premalurely and another ended in miscranged as a state of the state of the pregnantial premalurely and another ended in miscranged and premalurely and another ended in the state of the state of the premalurely and another ended in the state of th

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TRI-LUMA can make your skin more likely to get sunburn or develop other unwanted effects from the sun. Protect your skin from natural sunlight as much as possible to help prevent further darkening of existing dark patches and formation of new ones. Staying out of the sun is especially important for women who take birth control pills or hormone replacement therapy, and for people who have had dark patches in the

Cleam for from the construction of the constru

Use an effective sunscreen any time you are outside, even on hazy days. The sunscreen should have SPF (sun protection factor) of 30 or more. Use sunscreen year-round on areas of the skin that are regularly exposed to sunlight, such as your face and hands. If possible, protect the treated area from sunlight If you spend a lot of time outside, be especially careful of sunlight. Ask your doctor what SPF level will

give you the needed high level of protection. If you will be outside, wear protective clothing, including a

Do not use sunlamps while you use TRI-LUMA Cream.

Heat, wind and cold. Heat and cold tend to dry or irritate normal skin. Skin treated with TRI-LUMA Cream may be more likely to react to heat and cold. Your doctor can recommend ways to manage your melasma under these conditions.

Other skin products and medicines. Avoid products that may dry or irritate your skin. These may include soaps and cleansers that are rough or cause drying; certain astringents, such as alcohol-containing products, soaps and tolletries containing alcohol, spices, or lime; or certain medicated soaps, shampoos, and sulted your doctor. The medicines and product you have used in the past may cause redness or peeling what see the second states.

What are the possible side effects of TRI-LUMA Cream?

L very lew patients may get severe allergic reactions from TRI-LUMA. This includes people allergic o suifites. They may have trouble breathing or severe asthma attacks, which can be life-threaten-

While you use TRI-LUMA Cream, your skin may develop mild to moderate redness, peeling, burning, dry-

RI-LUMA Cream contains a corticosteroid medicine as one of its active components. The following side flects have been reported with application of corticosteroid medicines to the skin: Itching, irritation, dryess, infection of the hair follicles, acne, change in skin color, inflammation around the mouth, allergic on reaction, skin infection, skin thinning, stretch marks, and sweat problems.

lop using TRI-LUMA Cream and contact your doctor if you have severe or continued irritation, blistering, oozing, scaling, or crusting severe burning or swelling of your skin

severe burning or swelling of your skin irritation of your eyes, nose, and mouth Some patients using TRI-LUMA Cream develop dark spots on their skin (hyperplymentation), tingling, increased skin sensitivity, rash, acne, skin redness caused by a condition called rosacea, skin bumps, blisters, or tiny red lines or blood vessels showing through the skin (telangiectasia). If you are concerned about how your skin is reacting to the medicine, call your doctor. General Information about prescription medicines Medicines are sometimes prescribed for conditions that are not mentioned in patient information leaflets. Do not use TRI-LUMA for a condition for which it was not prescribed. Do not give TRI-LUMA to other people, even if they have the same symptoms you have. It may harm them.

This leaflet summarizes the most important information about TRI-LUMA. If you would like more infor-

This leaflet summarizes the most important information about TRI-LUMA. If you would like more information, talk with your doctor. You can ask your pharmacist or doctor for information about TRI-LUMA that is written for health professionals.

that is written for neatin professionals. Ingredients: TRI-LUMA Cream contains fluocinolone acetonide, hydroquinone, and tretinoin as active ingredients, as well as the following in the cream base: bulylated hydroxytoluene, cetyl alcohol, citric acid, glycerin, glyceryl stearate, magnesium aluminum silicate, methyl gluceth-10, methylprathen, PEG-100 stearate, propylparaben, purified water, sodium metabisulfite, stearic acid and stearyl alcohol.

Marketed by: Galderma Laboratories, L.P. Fort Worth, TX 76177 USA Manufactured by: Hill Laboratories, Inc Sanford, FL 32773 USA 20011-0102 Revised January 2002

Public Health Service

Food and Drug Administration Rockville MD 20857

NDA 21-112

Hill Dermaceuticals, Inc. Attention: Rosario G. Ramirez, M.D. Director, Medical/Regulatory 2650 South Mellonville Ave. Sanford, Florida 32773

Dear Dr. Ramirez:

Please refer to your new drug application (NDA) dated March 19, 1999, received March 22, 1999, submitted under section 505(b) of the Federal Food, Drug, and Cosmetic Act for TRI-LUMA (fluocinolone acetonide, 0.01% / hydroquinone, 4% / tretinoin, 0.05%) Cream.

We acknowledge receipt of your submissions dated August 16, 21(two), 22, September 4, 18, 19, 26, October 25, November 1 and 22, December 10, 18, 20, 2001; January 10 and 15, 2002; and facsimile transmissions dated September 17 and 20, and November 16 and 22, 2001; and January 18(two), 2002. Your submission of July 20, 2001, constituted a complete response to our January 21, 2000, action letter.

This new drug application provides for the use of TRI-LUMA ((fluocinolone acetonide, 0.01% / hydroquinone, 4% / tretinoin, 0.05%) Cream for the short-term treatment of moderate to severe melasma of the face, in the presence of measures for sun avoidance, including the use of sunscreens.

We have completed the review of this application, as amended, and have concluded that adequate information has been presented to demonstrate that the drug product is safe and effective for use as recommended in the agreed upon enclosed labeling text. Accordingly, the application is approved effective on the date of this letter.

The final printed labeling (FPL) must be identical to the enclosed labeling (text for the package insert, text for the patient package insert, immediate container and carton labels). Marketing the product with FPL that is not identical to the approved labeling text may render the product misbranded and an unapproved new drug.

Please submit the copies of final printed labeling (FPL) electronically according to the guidance for industry titled *Providing Regulatory Submissions in Electronic Format - NDA* (January 1999). Alternatively, you may submit 20 paper copies of the FPL as soon as it is available but no more than 30 days after it is printed. Please individually mount ten of the copies on heavy-weight paper or similar material. For administrative purposes, this submission should be designated "FPL for approved NDA 21-112." Approval of this submission by FDA is not required before the labeling is used.

We remind you of your postmarketing study commitments in your facsimile transmissions dated January 18, 2002. These commitments are listed below:

1. The Applicant commits to the collection of pregnancy outcome data arising from the use of TRI-LUMA Cream in pregnancy, monitor the unintended usage in pregnancy, and provide measures how this can be reduced. The Applicant will submit a protocol for review.

Protocol Submission:

Within 3 months of the date of this letter

2. The Applicant commits to performing dermal carcinogenicity testing of the combination drug product.

Protocol Submission:

Within 4 months of the date of this letter

Study Start:

Within 6 months of the date of the approval of the protocol

Final Report Submission:

Within 12 months after the study completion

In addition, the Applicant will provide to the Agency the complete study reports for Studies 29 and 30 as soon as each study is completed, and provide Safety Updates in these submissions.

The Agency reminds the Applicant of their commitment to provide a final report on the 12 months storage stability of tretinoin in human plasma on or before August 2002.

We also acknowledge your agreement on January 18, 2002, to implement changes within six months to revise the container and carton label to show (1) white space between the ingredients listing and the "Storage" condition line; and (2) the established name will be at least ½ the size of the tradename.

Submit clinical protocols to your IND for this product. Submit nonclinical and chemistry, manufacturing, and controls protocols and all study final reports to this NDA. In addition, under 21 CFR 314.81(b)(2)(vii) and 314.81(b)(2)(viii), you should include a status summary of each commitment in your annual report to this NDA. The status summary should include expected summary completion and final report submission dates, any changes in plans since the last annual report, and, for clinical studies, number of patients entered into each study. All submissions, including supplements, relating to these postmarketing study commitments must be prominently labeled "Postmarketing Study Protocol", "Postmarketing Study Final Report", or "Postmarketing Study Correspondence."

Validation of the regulatory methods has not been completed. At the present time, it is the policy of the Center not to withhold approval because the methods are being validated. Nevertheless, we expect your continued cooperation to resolve any problems that may be identified.

Be advised that, as of April 1, 1999, all applications for new active ingredients, new dosage forms, new indications, new routes of administration, and new dosing regimens are required to contain an assessment of the safety and effectiveness of the product in pediatric patients unless this requirement is

waived or deferred (63 FR 66632). We are waiving the pediatric study requirement for this action on

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this application as the necessary studies are impossible or highly impractical to conduct because the number of patients is too small.

In addition, please submit three copies of the introductory promotional materials that you propose to use for this product. All proposed materials should be submitted in draft or mock-up form, not final print. Please submit one copy to this Division and two copies of both the promotional materials and the package insert directly to:

Division of Drug Marketing, Advertising, and Communications, HFD-42 Food and Drug Administration 5600 Fishers Lane Rockville, Maryland 20857

Please submit one market package of the drug product when it is available.

We remind you that you must comply with the requirements for an approved NDA set forth under 21 CFR 314.80 and 314.81.

If you have any questions, please call Victoria Lutwak, Project Manager, at 301-828-2073.

Sincerely,

(See appended electronic signature page)

Jonathan K. Wilkin, M.D.
Director
Division of Dermatologic & Dental Drug Products
Office of Drug Evaluation V
Center for Drug Evaluation and Research

Enclosure

This is a representation of an electronic record that was signed electronically and this page is the manifestation of the electronic signature.

Jonathan Wilkin 1/18/02 06:24:25 PM