

TEST REPORT

BEESLINE DEO WHITENING EVALUATION OF SAFETY & EFFICACY STUDY

I. COMPOSITION

Butane. Isobutane. Propane. Cyclomethicone. C1215- Alkyl Lactate. Aqua. Potassium Alum. Tocopheryl Acetate. Aloe Barbadensis (Juice). Zingiber Officinale (Root Extract). Glycine Soja (Soybean). Magnesium Ascorbyl Phosphate. Caprylic/Capric Triglyceride & Diacetyl-Boldine (Lumiskin). Propanediol, Rhamnose, Glucose & Glucuronic Acid (Teflose). Lactic Acid. Sodium Lactate. Niacin. Octyldodecanol. Parfum. Propolis.

II. ACTIVE INGREDIENTS

The active ingredients used in this deodorant are the combination of: Teflose, Potassium Alum, Propolis, Lumiskin, Aloe Vera, Ginger & Soy extract. Some of them have a natural bactericidal synergistic activity that inhibits bacterial metabolism responsible for axillary odor production while others act as natural skin whiteners & have hair delaying properties. These active ingredients work without disturbing the natural flora of the axilla.

III. SAFETY & EFFICACY OF THE PRODUCT “DEO WHITENING”:

a. PURPOSE

The purpose of this clinical study is to evaluate the safety and efficacy of Beesline Deo Whitening as a result of repeated application for 4 weeks.

b. METHOD

• TESTING FOR ANTIPERSPIRANT EFFICACY:

The method used was based on the consumer perception. For 3 consecutive days, 25 volunteers (5 males & 20 females) didn't use any deodorant or antiperspirant, but showered their body with a soap or shower cream. Then, they applied Beesline Deo Whitening Pacific Islands on one axilla. A control placebo formulation was used based on a double blind principle on the opposite axilla. The Deo spray was applied once volunteers stayed in a hot room during one hour, and then came back to the lab after 24 hours, 48 hours & 72 hours of the application without showering. They defined the degree of malodor on a 0 to 10 scale (0 has the no axillaries odor, 10 has the strongest axillaries odor). The mean rate is then calculated.

• TESTING FOR WHITENING & HAIR DELAYING EFFICACY:

The method used was based on the consumer perception. For 4 weeks, 25 female volunteers didn't use any hair removal method. After initial hair removal, Beesline Deo Whitening Pacific Islands was applied daily on one axilla. A control placebo formulation was used based on a double blind principle on the opposite axilla. The volunteers came back to the lab after 2 weeks, 3 weeks & 4 weeks of the application and they reported the percentage of hair re-growth & the reduction of dark skin blotches. The mean rate is then calculated for each week.

• RESULTS

All subjects completed the study as planned. Significant evening of skin complexion, reduction in axillary odor & hair growth delaying were detected at the end of the study. There were no adverse effects reported during the study and compliance to the use of formulation was excellent.

The tables below shows the results of the study:

a- Results of the antiperspirant efficacy:

EFFECT	Beesline Deo Whitening after 24 hrs	Placebo after 24h	Beesline Deo Whitening after 48 hrs	Placebo after 48h	Beesline Deo Whitening after 72 hrs	Placebo after 72h
Malodor Detected in Volunteers (%)	4	4	8	20	24	80
Itching (%)	0	0	0	0	0	0
Clogged skin pores (%)	0	0	0	0	0	0
Redness (%)	0	0	0	0	0	0

b- Results of the hair delaying & whitening efficacy:

EFFECT	Beesline Deo Whitening Pacific Islands after 2 weeks	Placebo after 2 weeks	Beesline Deo Whitening Pacific Islands after 3 weeks	Placebo after 3 weeks	Beesline Deo Whitening Pacific Islands after 4 weeks	Placebo after 4 weeks
Mean % of hair regrowth	3	15	10	60	20	100
Mean Reduction of skin blotches(%)	10	0	40	0	80	0

d. CONCLUSION:

The findings reported demonstrate that the product: Beesline Deo Whitening is effective in protecting from odor formation for at least 72 hours, lightening the skin complexion & delaying hair growth. None of the volunteers experienced hypersensitivity reactions. Therefore, it may be concluded that the test done on the Beesline Deo Whitening is safe and efficient. However, a study involving larger population of subjects will be desirable.