Cellular Renewal Assay



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Tradename: ACB Yogurt Extract

Code: 20070

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Abstract

ACB Yogurt Extract was evaluated for its ability to accelerate cell renewal by means of a traditional Dansyl Chloride protocol.

Methods & Materials

A 5% Dansyl Chloride was prepared by dispersing Dansyl Chloride 95% (Sigma) in petrolatum. Approximately 0.2 g of the ointment was applied to three 2cm x 2cm locations on the volar forearm of 12 (M/F) subjects between the ages of 20 and 45. The material was allowed to remain in place for 24 hours at which time any excess ointment was removed.

Two products were tested, with the remaining untreated site serving as the biological control. The products were applied in a randomized fashion. Approximately 50 μ l of product was applied to the appropriate test site once per day. The sites were then examined daily under ultraviolet light (SL-3660 Long Wave Ultra Violet, Black Light Eastern Corp., Westbury, Long Island, NY) for fluorescence. The test was continued until no fluorescence was detectable at any site. The values listed reflect the average time for each product.

Results:

Material	Concentration	Days	% Cell Renewal
Glycolic Acid	4%	18	18.18%
Untreated Control	N/A	22	0%
Unloaded Vehicle	N/A	20	9.09%
ACB Yogurt Extract	10%	19	13.63%

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Figure 1. Time Elapsed for Complete Cellular Renewal

Discussion

The results indicate that **ACB Yogurt Extract** is capable of increasing cellular renewal by 13.63% when compared to the untreated biological control. One of the main products produced by LAB is lactic acid. Lactic acid, being a member of the alpha hydroxy acids or AHAs, works on the skin's lipids by dismantling them, which allow the dead cells' outer layer to fall off (Chatelaine 1993 Sep;66(9):22). This process is done by their ability to weaken bonds which hold dead skin cells together, thus provoking the dead cells to shed from the skin's surface. AHAs have obtained the approval of the FDA as agents capable of penetrating the skin's barrier, thus increasing the turnover rate of cells and lowers the outer skin's thickness. Lactic acid is an excellent moisturizing ingredient beneficial for most hyper-proliferate skin conditions.

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