



NOP AGAVE FERMENT REDUCTION IN SUNBURN PAIN

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A protocol was developed to evaluate the ability of NOP Organic Agave Ferment to reduce discomfort produced by over-exposure to UV radiation.

Materials & Methods

Twenty panelists (m/f 21 – 37) were asked to evaluate two lotions containing either NOP Organic Agave Ferment (2.8% w/w) or Benzocaine (0.5% w/w). Subjects were selected randomly at a local beach based on perceivable overexposure to the sun. The panelists were asked to apply the products immediately following overexposure to the sun and to record their immediate perceptions as well as their perception after two hours. The product was evaluated for reduction in erythema reduction in sunburn pain. The results were graded on a scale of 1 to 5 with 5 being complete reduction.

Application continued for 1 week, with the product being applied twice per day. Products were weighed at the beginning and end of the study to evaluate compliance.

Results

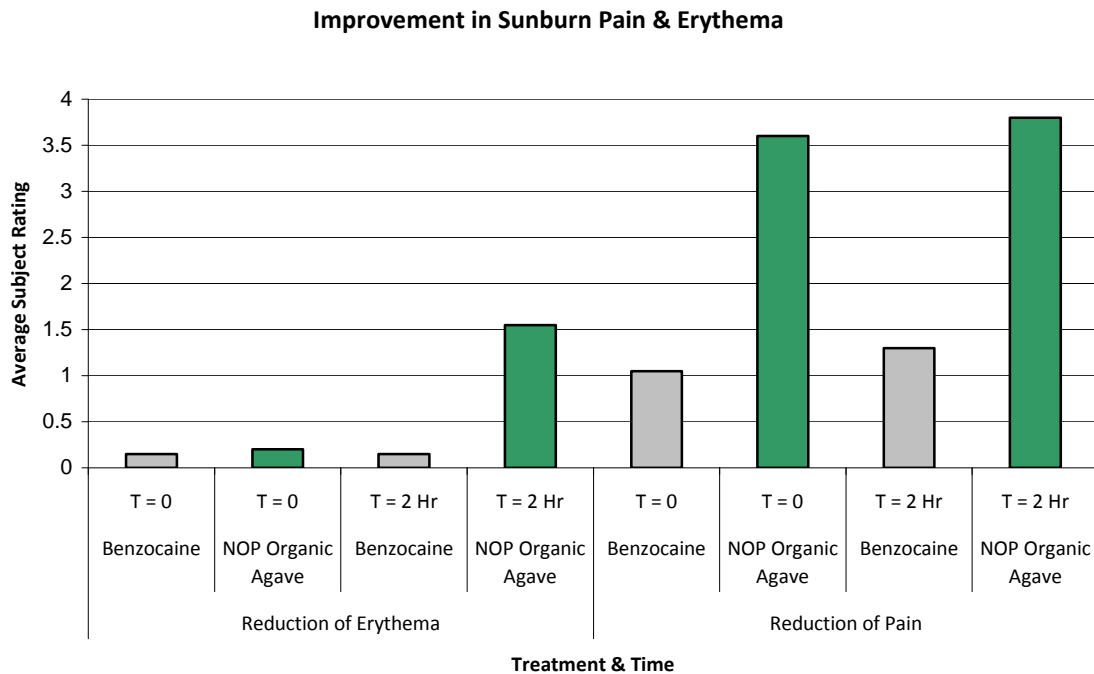


Figure 1. Average subject ratings for sunburn pain & erythema.



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	Reduction of Erythema				Reduction of Pain			
	Benzocaine		NOP Organic Agave Ferment		Benzocaine		NOP Organic Agave Ferment	
Panelist	T = 0	T = 2 Hr	T = 0	T = 2 Hr	T = 0	T = 2 Hr	T = 0	T = 2 Hr
1	0	1	0	2	1	1	3	4
2	0	0	0	1	1	1	3	3
3	0	0	1	2	2	2	3	3
4	1	0	0	2	1	2	4	3
5	1	1	1	3	0	1	3	4
6	0	0	0	1	1	1	3	4
7	0	0	1	1	1	1	3	4
8	0	0	0	1	0	1	5	5
9	0	0	0	2	2	2	4	3
10	1	0	0	2	0	0	3	3
11	0	0	0	1	2	2	3	4
12	0	0	0	1	1	1	4	4
13	0	0	0	3	2	3	4	4
14	0	1	0	1	1	1	5	4
15	0	0	0	1	1	1	4	3
16	0	0	0	2	1	1	4	5
17	0	0	0	1	1	0	3	5
18	0	0	1	1	1	2	4	4
19	0	0	0	1	1	2	3	4
20	0	0	0	2	1	1	4	3
Mean	0.15	0.15	0.2	1.55	1.05	1.3	3.6	3.8

Table 1. Subject's ratings of sunburn pain & erythema.

Discussion

The results indicate that topical application of NOP Organic Agave Ferment is capable of producing consumer perceivable reductions in erythema and discomfort resulting from overexposure to light. It was also noted among those panelists complying with the one-week application period that there was a marked reduction in peeling to those areas where the lotion containing NOP Organic Agave Ferment was applied.