

Skin elasticity evaluation of Hyacross

1. Purpose

To evaluate if Hyacross can improve skin elasticity.

2. Materials

Samples: The only difference between control and test samples was the cream of test samples contained Hyacross. The content of Hyacross in the test sample was 1%.

Instruments: MPA580 (Courage + Khazak, electronic GmbH)

3. Volunteers

30 healthy volunteers of 20~45 years old.

4. Operation

The left and right forearm of the subjects were divided into two parts and apply the test sample and control sample respectively with the dosage of $3.0 \pm 0.1 \text{ mg/cm}^2$. The samples were applied continuously twice a day for 4 week. Skin elasticity parameters R2 is measured by using MPA580.

5. Results

Compared to the control group, the skin elasticity of Hyacross group was significantly increased. After 4 weeks of application, the relative skin elasticity increasing rate for the Hyacross group reached up to 21.6%.

Tab.1: R2 increasing rate of Hyacross group

Samples	Before	1 week	2 weeks	3 weeks	4 weeks
Control	0	1.59	1.70	3.05	4.93
Hyacross 1%	0	6.71	10.96	16.38	21.61
Statistical significance	NS	$P < 0.05$	$P < 0.01$	$P < 0.01$	$P < 0.01$

6. Conclusion

Hyacross can significantly improve skin elasticity because it can form a dense film on the surface of skin to tighten skin and enhance skin barrier function.

Appendix: Formulation for Test

No.	INCI name	Wt/%
1	CAPRYLIC/CAPRIC TRIGLYCERIDE	8.0
2	GLYCERIN	6.0
3	DIMETHICONE	2.0
4	CETEARYL OLIVATE/SORBITAN OLIVATE	2.0
5	POLYACRYLATE-13/POLYISOBUTENE/POLYSORBATE 20	0.6
6	BEHENYL ALCOHOL	0.5
7	HYDROXYACETOPHENONE	0.5
8	PHENOXYETHANO	0.5
9	AMMONIUM ACRYLOYLDIMETHYLTaurate/BEHENETH-25	0.4
10	AQUA	to 100
	Hyacross	1.0