CONTINUOUS IMPROVEMENT OF SKIN AGING APPEARANCE THROUGH A NEW FACIAL SERUM

Submission ID 213

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1 INTRODUCTION

Skin aging is in part characterized by loss of moisture, elasticity and firmness, rough texture, as well as skin tone dullness, which finally lead to the formation of fine lines and wrinkles. A typical clinical evaluation for an anti-aging cosmetic product is usually short term from one month to three months, with only one targeted age group, which may have limitations in providing a holistic understanding of the product efficacy and across different age groups.

To fill this gap, a nine-month clinical study, based on three age groups of 20-50 y.o subjects was designed to evaluate the efficacy and tolerance of a newly developed multi-benefit facial serum across long term usage, and to explore age specific responses across a wide range of consumers.

2 MATERIALS & METHODS

TESTED SERUM:

Innovated emulsified gel which contains 10% bifida ferment lysate and 0.3% sphingomonas ferment extract, as well as salicyloyl phytosphingosine, hydroxyethylpiperazine ethane sulfonic acid and papain.

Twice a day use on full face in the morning and evening during the test.

CLINICAL DESIGN:

Open-label, single center, 3-week washout and 9-month application clinical study from Dec 2020 to Sep 2021

- A total of 208 volunteers enrolled for self-assessment while 182 volunteers for clinical evaluation.

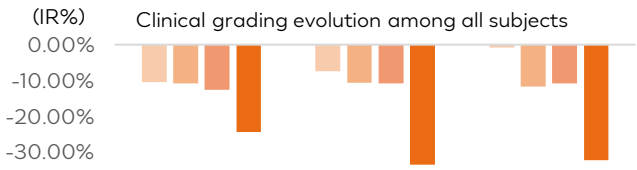
Group 1: 20-29 years old	58 subjects
Group 2: 30-39 years old	63 subjects
Group 3: 40-50 years old	61 subjects

- Clinical gradings on skin radiance, smoothness, and elasticity for all three age groups. Cheek pores for Group1; underneath eye wrinkles for subjects in Group2; crow's feet wrinkles for subjects in Group3.
- Standardized photographs (VISIA®, CANFIELD, NJ, US)
- Subject self-assessment questionnaire
- Statistical analysis were performed

3 RESULTS & DISCUSSION

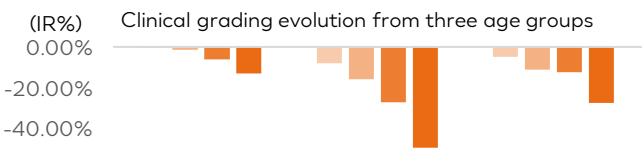
CLINICAL EXPERT GRADING:

Significant improvements of skin radiance and skin smoothness in all subjects at each timepoints, and the skin elasticity improved after 2 months use until 9 months, also on cheek pore in Group 1, underneath eye wrinkle in Group 2, crow's feet wrinkles in Group 3. (Data and representative examples see in Fig 1, 2, and Table 1)



	Skin radiance	Skin smoothness	Skin elasticity
T1m	-10.40%	-7.44%	-0.90%
T2m	-10.89%	-10.64%	-11.67%
T3m	-12.61%	-10.76%	-10.77%
T9m	-24.36%	-33.64%	-32.31%

Fig1. The improvement rates (IR%) from baseline in clinical grading parameters of all subjects



	Cheek pore (G1,N=58)	Underneath eye wrinkles (G2,N=63)	Crow's feet wrinkles (G3, N=61)
T1m	-0.18%	-7.85%	-4.78%
T2m	-1.17%	-15.85%	-11.10%
T3m	-6.03%	-26.93%	-12.14%
T9m	-12.85%	-49.15%	-27.14%

Fig2. The improvement rates (IR%) from baseline: Skin cheek pores in Group 1, underneath eye wrinkles in Group 2 and crow's feet wrinkles in Group 3

Table 1. Representative examples

	Baseline	T9M
Pore		
Underneath Eye wrinkles		
Crow's feet wrinkles		

4 CONCLUSIONS

The results indicated this newly developed facial serum can continuously improve skin aging appearance over time with twice daily usage. Strong efficacy in improving age-specific skin attributes can also be delivered through the investigational product.

REFERENCES

1.Bazin R, Flament F (2009) Skin Aging Atlas, Vol. 2. Asian Type MED'COM Publishing, Poland

2.Gueniche A, Bastien P, et al. (2009) Bifidobacterium longum lysate, a new ingredient for reactive skin. Experimental Dermatology 19(8):e1-8

3.Gervason S, Napoli M, et al. (2019) Attenuation of negative effects of senescence in human skin using an extract from Sphingomonas hydrophobicum: development of new skin care solution, International Journal of Cosmetic Science, 2019, 1-7

4.QIU H, Long X, et al. (2011) Influence of season on some skin properties: winter vs. summer, as experienced by 354 Shanghaiese women of various ages, International Journal of Cosmetic Science, 2011, 33, 377-383

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32nd IFSCC Congress London 19-22 September 2022