

EVE Lab

Efficacy Evaluation of VeCollal[®] on Skin Conditions



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Preface

The purpose of the study is to evaluate the efficacy of VeCollal[®] for skin condition via scientific validation.

Materials and Instruments

A. Product info:

1. Name:
 - 1.1 VeCollal[®] sachet (3.885 g/sachet)
 - 1.2 Placebo sachet
2. Dosage: 1 sachet/day

B. Subjects:

1. Number: Total 15 subjects (VeCollal[®] : Placebo = 10 : 5)
2. Inclusion criterion: Healthy adults between age 25-65 years old

C. Examination item & instruments:

- 1.1 Examination item: Wrinkles
- 1.2 Instruments: VISIA Complexion Analysis System (Canfield, USA) (Figure 1)
 - 2.1. Examination item: Collagen density
 - 2.2. Instruments: DermaLab[®] USB – High Freq. Ultrasound Module (Cortex Technology, Denmark) (Figure 2)
- 3.1 Examination item: Blood biochemistry analysis - alanine aminotransferase (ALT), aspartate aminotransferase (AST), creatinine, blood urea nitrogen (BUN)

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Figure 1. VISIA Complexion Analysis System



Figure 2. DermaLab[®] USB – High Freq. Ultrasound Module

Methods

A placebo-controlled trial was conducted. The subjects were informed to consume 1 sachet of the VeCollal[®] or placebo everyday for 4 weeks. Each subject was required to undergo skin condition measurement and blood sampling at week 0, week 2, and week 4. Statistic method was student's t-test and when p value is less than 0.05 means significant difference.

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Results

1. Safety assessment

The results of biochemistry analysis were listed in Table 1. After consuming VeCollal[®] and placebo sachet for 4 weeks, the values of liver related marker – AST, ALT, and kidney function related marker – BUN, creatinine were not significantly changed.

2. Wrinkle smoothing efficacy

VISIA Complexion Analysis System was utilized to measure wrinkles. The lower the relative value, the greater the improvement. The placebo-normalized result showed that the average value of wrinkles was 12.5% lower than first week after consuming VeCollal[®] sachet for 4 weeks (figure 3). The ratio of the subjects who had an effective improvement to the total participants was 80.0%.

3. Collagen boosting efficacy

DermaLab[®] USB – High Freq. Ultrasound Module was utilized to measure skin collagen density. The higher the relative value, the greater the improvement. The placebo-normalized result showed that the average value of collagen density was 4.7% higher than first week after consuming VeCollal[®] sachet for 4 weeks. It means that VeCollal[®] can boost skin collagen synthesis.

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Conclusion

The results were summarized in Table 1 & 2. As a consequence, VeCollal[®] has the potential on wrinkle smoothing and collagen boosting. In addition, all the subjects had no evidence on skin irritation, gastrointestinal discomfort and any other discomforts.

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Table 1. Demographic and Results of Biochemical Analyses

Test group	Placebo		VeCollal [®]	
Subject number	5		10	
Female	4		8	
Male	1		2	
Age (years)	47.0		36.6	
Test timepoint	Week 0	Week 4	Week 0	Week 4
AST (IU/L)	17.5 ± 2.7	21.3 ± 2.4	14.5 ± 1.2	15.9 ± 1.7
ALT (IU/L)	21.5 ± 9.8	27.0 ± 11.1	15.1 ± 2.5	19.5 ± 5.1
BUN (mg/dL)	13.8 ± 1.3	15.4 ± 0.6	10.5 ± 0.7	11.8 ± 0.7
Creatinine (mg/dL)	0.67 ± 0.10	0.71 ± 0.11	0.64 ± 0.04	0.64 ± 0.06

Data were expressed as the mean ± S.E.M; AST, aspartate aminotransferase; ALT, alanine aminotransferase; BUN, blood urea nitrogen

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Table 2. Summary of the change of the skin conditions after consuming VeCollal[®] sachet for 4 weeks.

Examination item	VeCollal [®]	
	Week 2	Week 4
Wrinkles	-14.6%	-12.5%*
Collagen density	4.8%	4.7%

Significant difference from week 0 at *, $p < 0.05$

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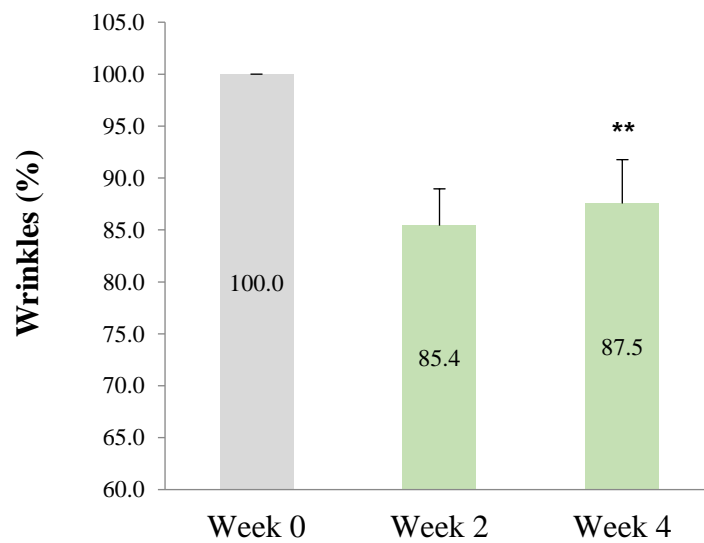


Figure 3. Wrinkles of subjects before and after consuming VeCollal[®] sachet for 4 weeks (significant difference from week 0 at **, $p < 0.01$).

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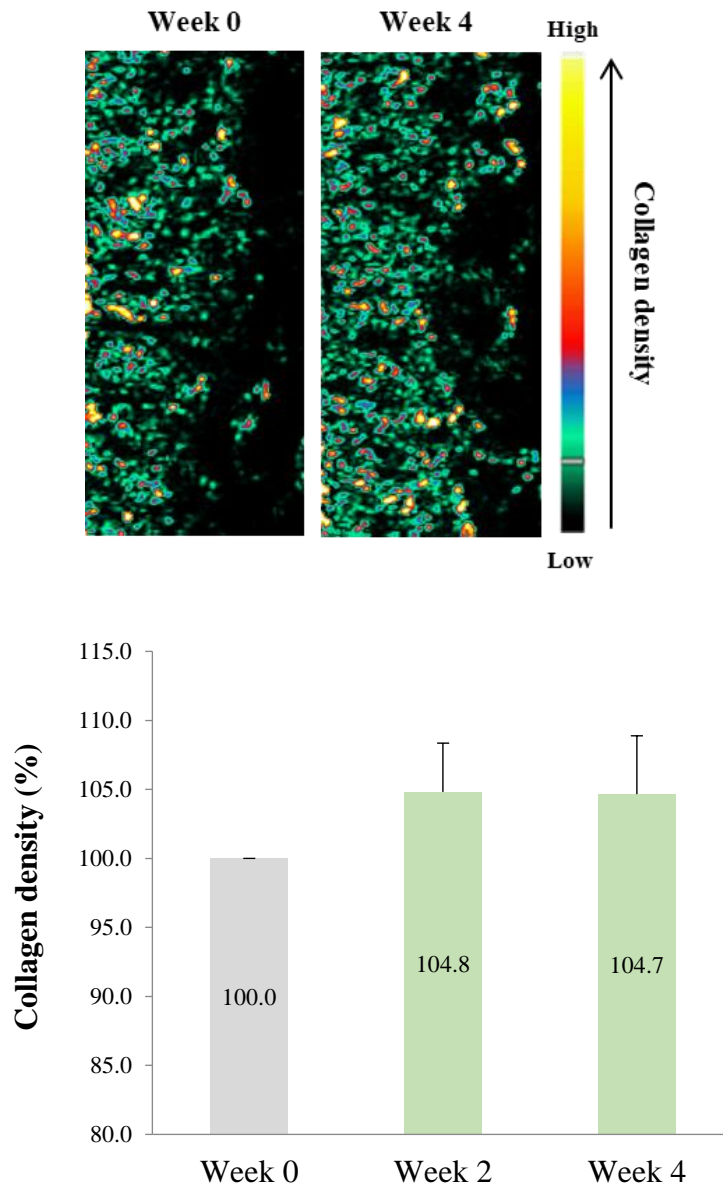


Figure 4. Collagen density of subjects before and after consuming VeCollal[®] sachet for 4 weeks.