



*Anti-Aging Assessments*  
(Pro-Collagen & Elastin Quantification)

**REPORT**

1 September 2022

For  
**SKINCOMM INTERNATIONAL PTE. LTD**

Report reference: R2022043-C

## Test Summary

### Project Objective

#### **Assessment of finished products Anti-Aging benefits using 3D In-vitro human Skin model to evaluate Pro-Collagen (Collagen) production potential.**

Dermal tissue is strong in young skin and has a plentiful supply of collagen and elastin – together they help to keep skin firm and smooth. As we age, collagen and elastin levels decline. This disrupts the dermal tissue arrangement, causing skin to lose strength. It feels less firm and wrinkles deepen. This study aims to identify the test product potential to stimulate the 3D skin models to produce pro-collagen & elastin upon topical application for 72 hours. ELISA technology is used as the end-point analysis method to evaluate the concentration of the pro-collagen and elastin.

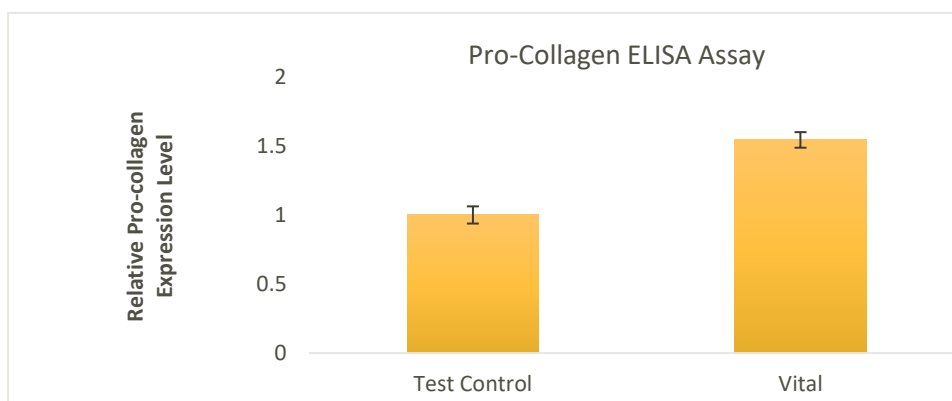
#### Test Products:

1. SKINCOMM™ Unicel Actives YouthVital

### Test Conclusion

3D Skin model treated with Unicel Actives YouthVital produced 54% more pro-collagen after 72 hours of treatment when compared to control (no treatment). Pro-collagen level was measured from cell culture media from each sample treatment and the relative pro-collagen was calculated with reference to control.

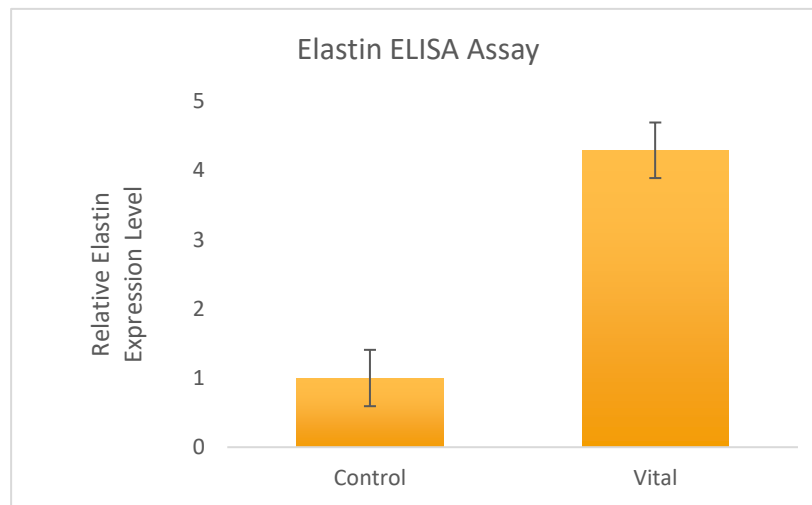
#### **Unicel Actives YouthVital shown skin anti-aging benefit with increased pro-collagen production (54%).**



**Figure1.** Pro-collagen level elevated in 3D skin models treated with Unicel Actives YouthVital after 72 hours.

Similarly, the treatment of Unicel Actives YouthVital in 3D Skin model induced 429% Elastin (4.29 x more) after 72 hours of treatment when compared to control (no treatment). The relative elastin was calculated with reference to control where means and standard deviations were calculated from result obtained from 3 independent experiment setup for each sample.

**Unicel Actives YouthVital shown skin anti-aging benefit with increased Elastin production (429%).**



**Figure 2.** Elastin level elevated in 3D skin models treated with Unicel Actives YouthVital after 72 hours.