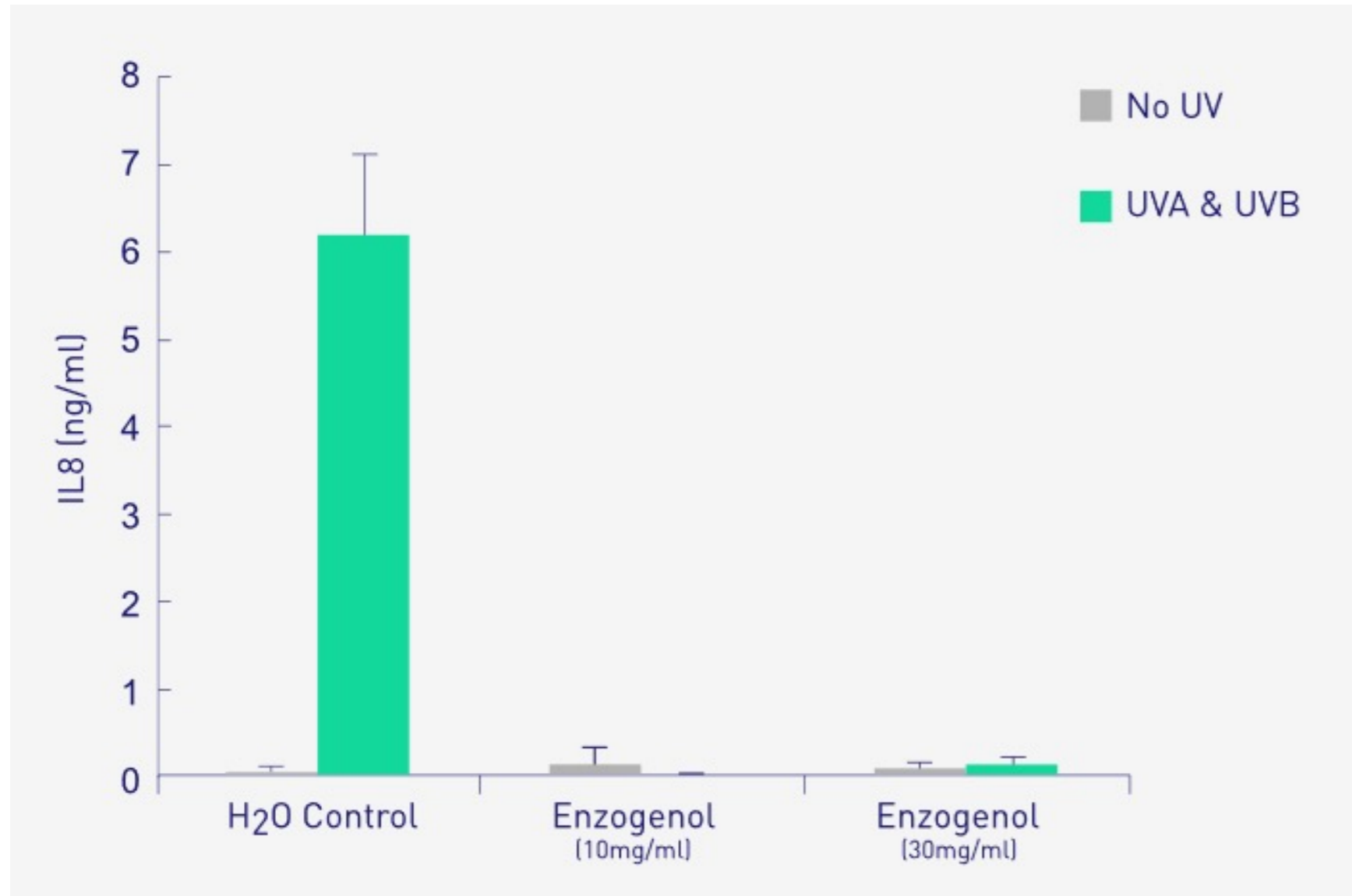


# Skin Benefits – 1



Agresearch, New Zealand. Client report CLR 14-40 ( FBP 45187) October 2014.

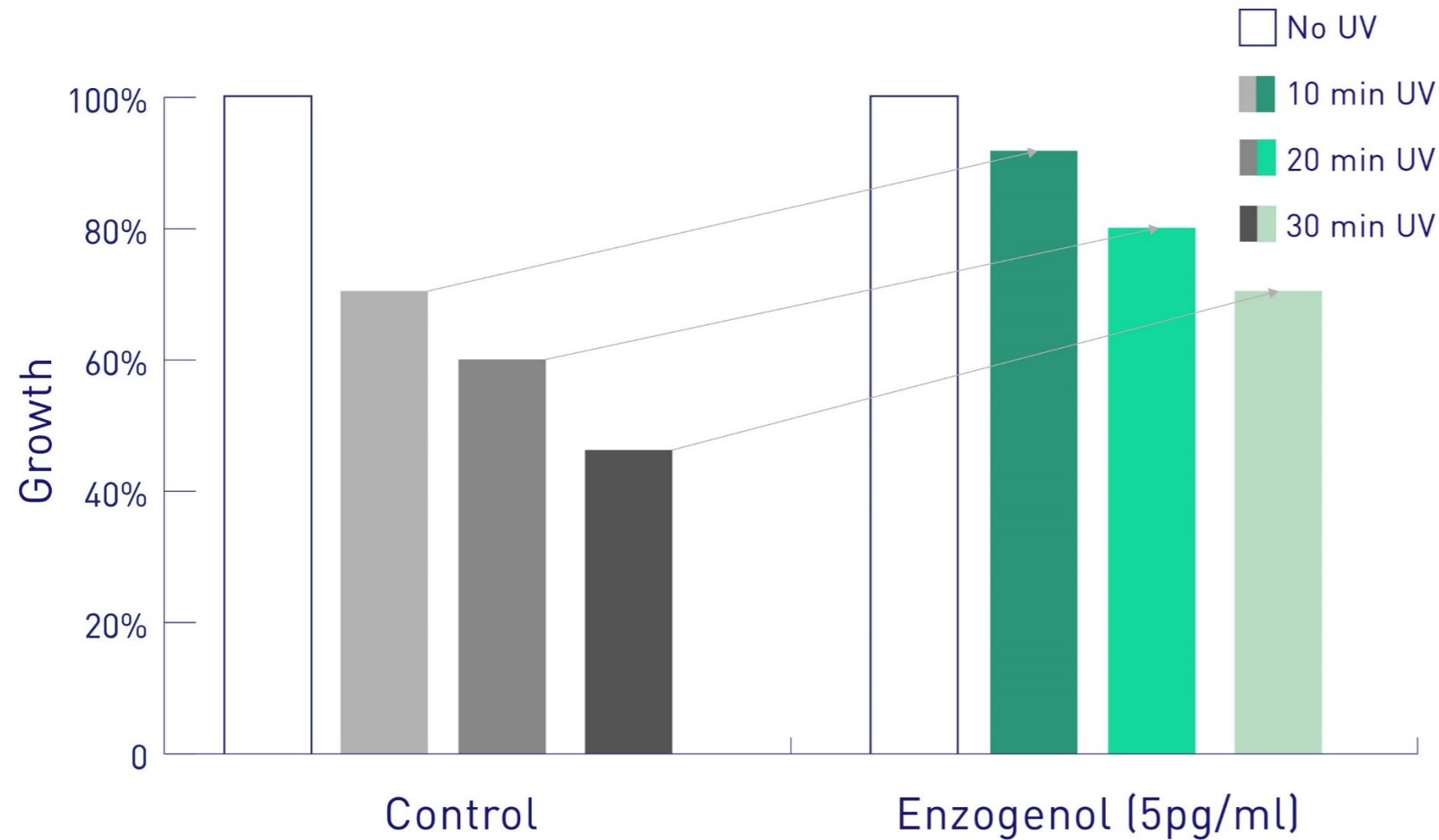
## topical use

**Reduce UV damage in skin with Enzogenol**

**ENZOGENOL protects skin from UVA & UVB and reduces skin inflammation.**

**Human skin tissue was treated with Enzogenol (10mg/ml or 30mg/ml) before irradiation with UVA (400mJ/cm<sup>2</sup>) and UVB (1600mJ/cm<sup>2</sup>). Enzogenol treated skin showed a complete lack of inflammatory response (IL8) demonstrating a strong protective effect.**

# Skin Benefits – 2



## topical use

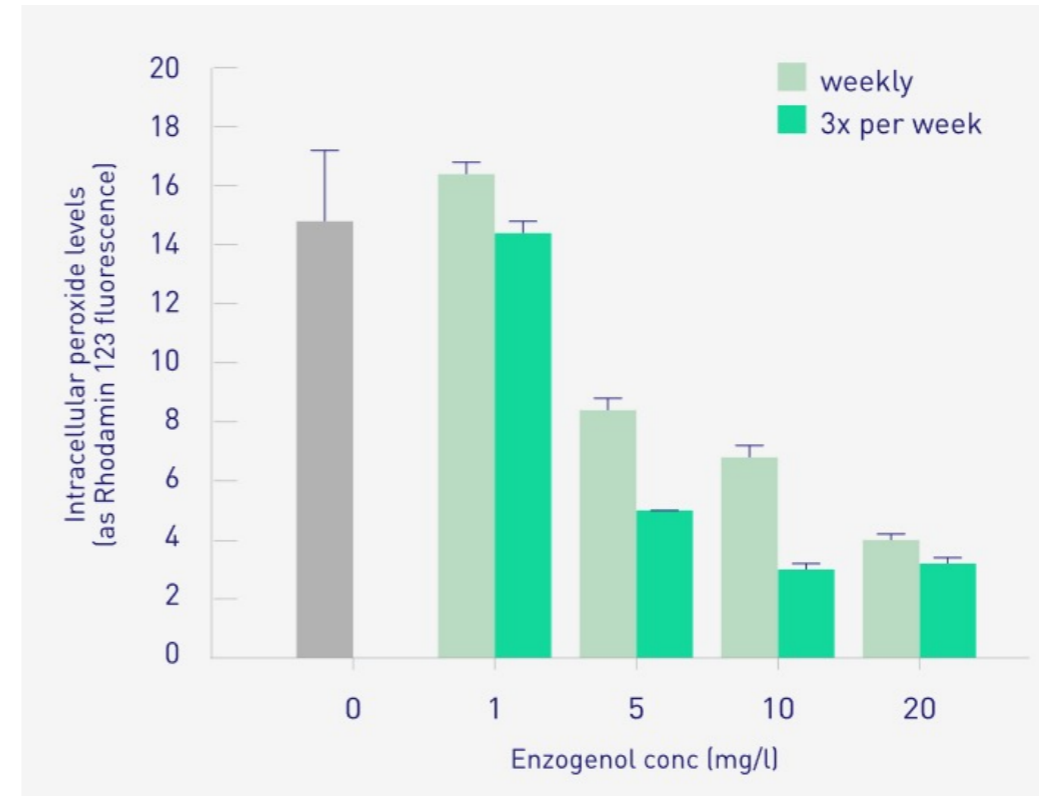
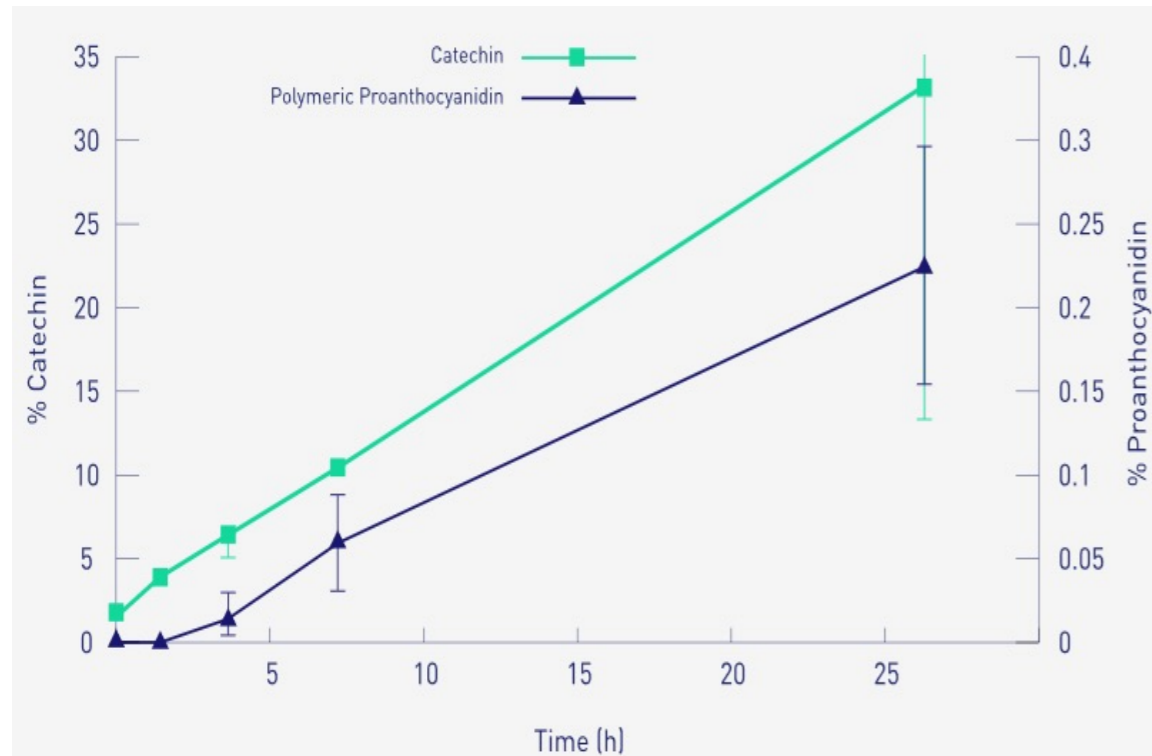
**Protect skin cell growth from UV damage**

**Human skin fibroblasts were treated with UV-radiation. UV led to growth depression of 28-52% in the controls, whereas the Enzogenol protected cells showed much lower growth depression of 8-29%.**

Client reports by Dr. Paul Davies of the Bioactivities Investigation Group, Otago School of Medicine, Wellington, New Zealand.

# Skin Benefits – 3

topical use

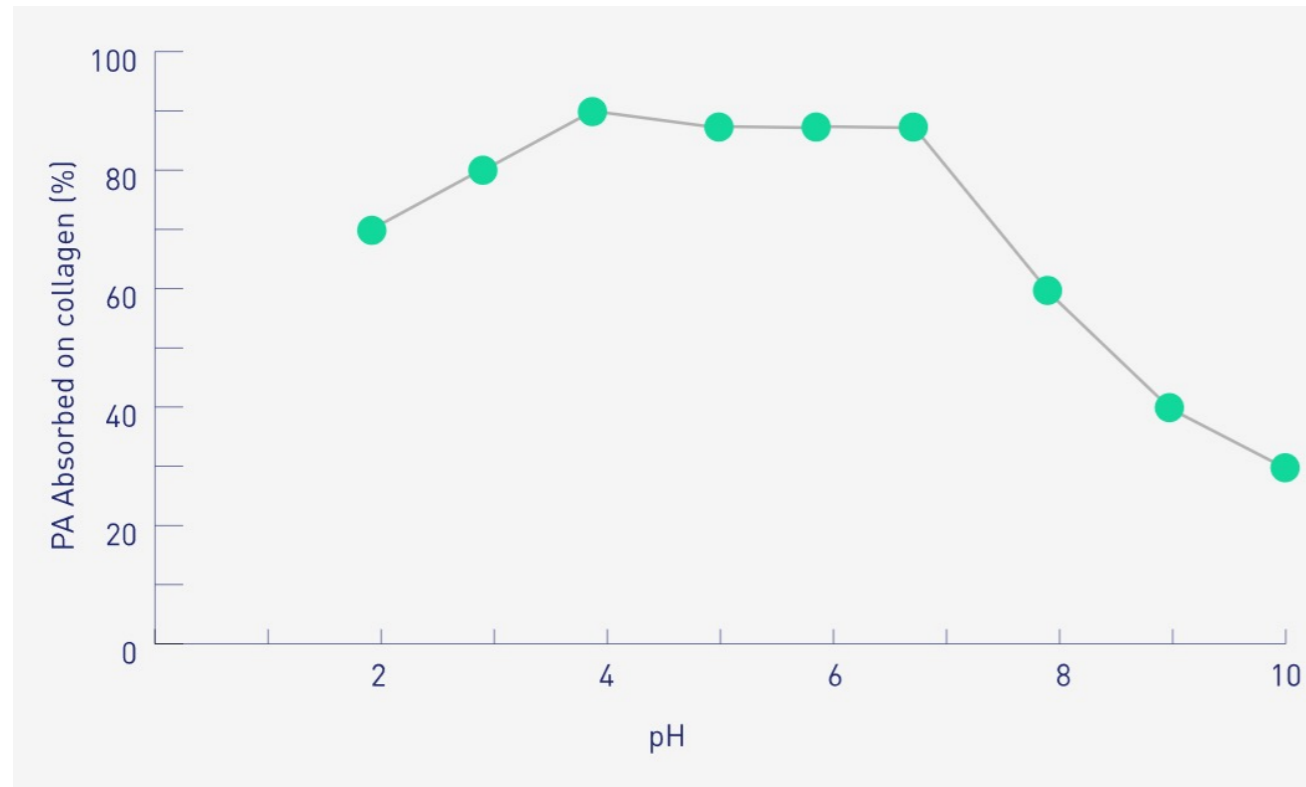


**Enzogenol OPCs and catechins penetrate the skin**

**Enzogenol reduces intracellular peroxide load => reduced oxidation**

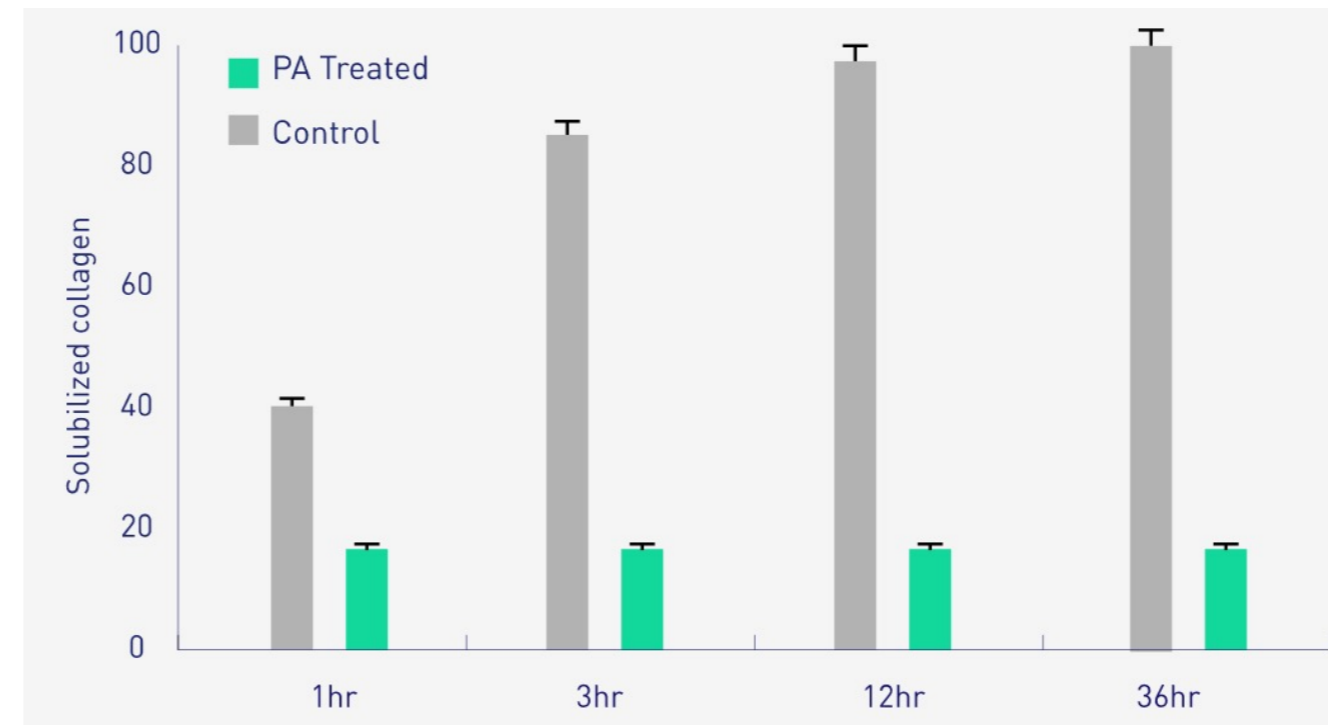
Client reports by Dr. Paul Davies of the Bioactivities Investigation Group, Otago School of Medicine, Wellington, New Zealand.

# Skin Benefits – 4



**Enzogenol Proanthocyanidins  
(PA)  
bind to skin collagen**

# topical use



**Enzogenol protects collagen  
from degradation**

Client reports by Dr. Paul Davies of the Bioactivities Investigation Group, Otago School of Medicine, Wellington, New Zealand.

# Skin Benefits – 5

## Conclusions

### Enzogenol has benefits for the skin on topical application

- Protection from UV radiation, rescuing cell growth and inhibiting inflammation
  - Reducing intracellular oxidation
  - Binding, protecting, stabilizing collagen
- **Anti-ageing effects**