

## “Physiological Effects of Eleuthero Extract in Experimental Animals”

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### **Title:**

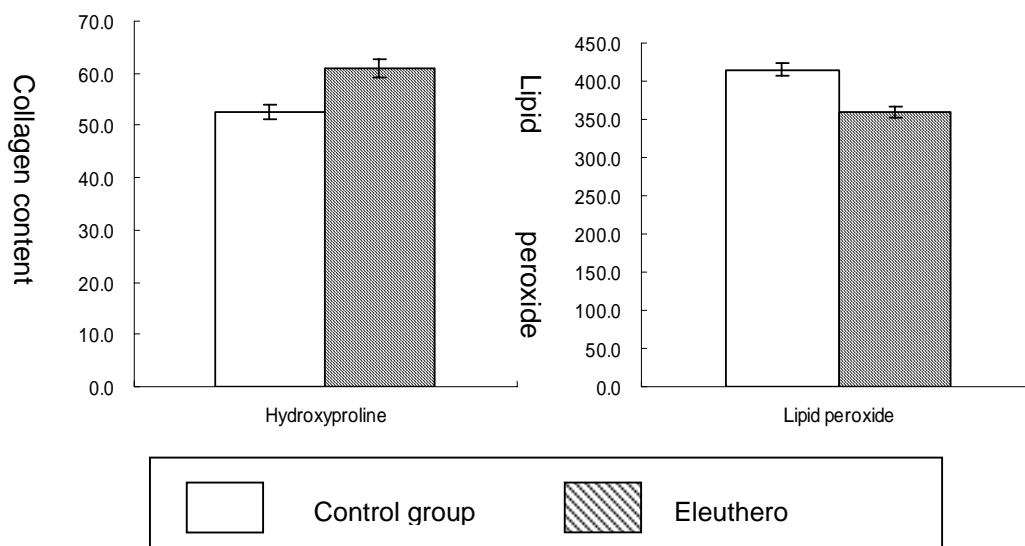
“Physiological Effects of Ezo Ukogi\* (*Acanthopanax senticosus* Harms\*\*) Root Extract in Experimental Animals” \*Ezo Ukogi is Japanese name for Eleuthero. \*\* Scientific name, *Acanthopanax senticosus* is also called *Eleutherococcus senticosus*.

### **Summary:**

It is a study report from some animal tests to establish the physiological effects of Eleuthero Extract. From these studies, it was confirmed that Eleuthero Extract have suppressive effect on lipid peroxide formation in the skin, a protective effect against collagen loss, an improving effect on peripheral blood circulation, and anti-fatigue effect.

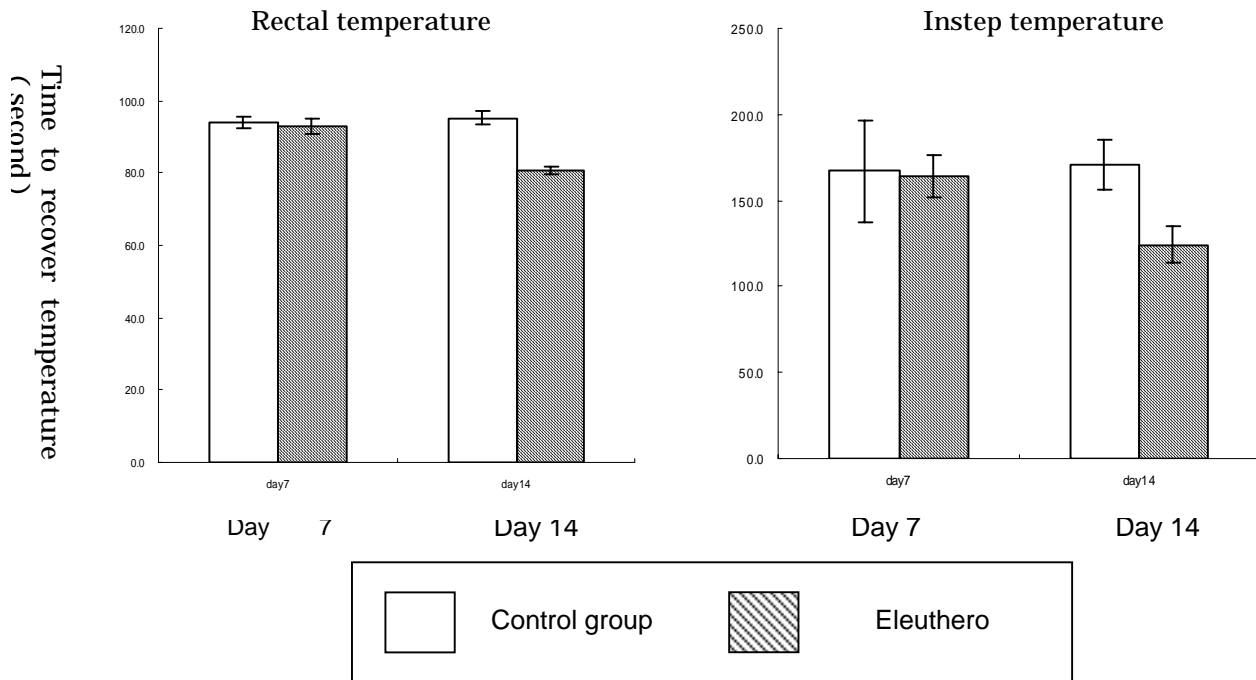
### **Suppressive effect on lipid peroxide formation in the skin and a protective effect against collagen loss.**

Administered Eleuthero extract to a guinea pig model, which were kept by feed that was vitamin C deficiency. On day 28, its back skin was exposed to UV light, and on day 30 the skin collected from the UV exposed site was analyzed for its lipid peroxide content, and the non-UV-exposed skin was examined for its collagen content. As a result, it was confirmed that consumption of Eleuthero extract not only suppressed lipid peroxide formation, but also inhibited the decrease in collagen contents compared to the control group.



### Improving effect on peripheral blood circulation

Measured the time to recover rat's temperature from condition of decreased temperature after being immersed in ice water for 15 minutes. After administering Eleuthero extract for 2 weeks, the recovery time of temperature was significantly reduced in comparison with the control group.



### Anti-fatigue effects

Measured mice's swimming time after forcible swimming load. After administering Eleuthero extract for 2 weeks, it was found that the swimming time was extended significantly in comparison to the control group.

