

## [1.] Moisture Cream Study

### **Summary**

The objective of this experiment is to measure the moisture loss that skin experiences under the conditions of a typical eight hour commercial airliner flight, and the efficacy of a new Estee Lauder product to reduce moisture loss. Twenty four (24) female subjects with dry skin will spend 8 hours in the NASTAR Altitude Chamber where the air pressure and humidity will simulate the conditions in a commercial airliner cabin. The pressure in the Altitude Chamber will equal the atmospheric pressure at 8,000 feet altitude, the maximum allowed cabin pressure altitude according to Federal Aviation Regulations. The Altitude Chamber will be maintained at 15-20% humidity, which is characteristic of most commercial airliner cabins.

The new moisturizing cream will be applied to one side of each subject's face prior to entering the chamber, and moisture readings will be taken using a non-intrusive probe. Subsequent skin moisture readings will be taken after 2, 4, 6 and 8 hours. The study will be performed over two days, with 12 subjects tested each day.

### **Objectives**

- The objective of this experiment is to measure the moisture loss that skin experiences under the conditions typical of an eight hour commercial airliner flight and the efficacy of a new product to reduce moisture loss.

### **Customer/Partner**

Estee Lauder Companies Inc.

### **Status**

Completed Summer 2012

### **Future Publications**

N/A