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Antiperspirant Efficacy

STEPS

1. Product Application

2. Webril Pads

Determination of antiperspirant efficacy for products intended to be applied to the underarm. The protocol can also be extended to include exercising during the sweat stimulation period.

Test Panel
Sex: Female Age: 18 through 65 years

Baseline sweat collection
These will be conducted on the first day of the test. Subjects producing 150 mg or more of sweat/20 minutes /axilla will be inducted in the study.

Supervised washes
These will be conducted prior to each test product application.

Sweat Stimulation
Sweating will be induced by having the subjects sit in a constant temperature and humidity test chamber maintained at 100oF +/-2oF and 35% +/- 5% RH.

Sweat Collections
During the first 40 minutes of the sweat stimulation period, the subjects will hold unweighed pads of Webril (non-woven cotton padding fabric) in their axillae. This preliminary warm up period will be followed by two successive 20 minute collection periods, during which the subjects will hold Webril pads in the axillae. These pads will be weighed in zip-lock storage baggies before and after use. During the sweat stimulation and collection periods, the subjects will be required to sit in an erect position with both feet flat on the floor and with their arms resting against their sides in a symmetrical manner. Insertion and removal of the weighed pads will be made by laboratory technicians. The processing will be carried out at approximately 15 second intervals as the technician moves from subject to subject in the test chamber.

Measurements
Geometric mean amounts of sweat collection at baseline and after applications for treated and untreated axilla will be measured. The treated/untreated ratios of amount of sweat at each collection and also post application ratios adjusted to baseline will be tabulated.
Individual and summary of mean scores at baseline and 12 and 24 hours after 2nd application for treated and untreated axilla will also be tabulated. Alternatively, the collection times may be amended to 24 and 48 hrs.

Experimental Design
F.D.A. Guidelines for the Effectiveness Testing of OTC Antiperspirant Drug Products June 2003

Cantor Research Laboratories Operating Procedure Manual References

Eurofins Dermatest Pty Ltd
20 - 22 King St
Rockdale NSW Australia
ph 61 2 9556 2601
info@dermatest.com.au
www.dermatest.com.au