



Sweat Resistance Testing

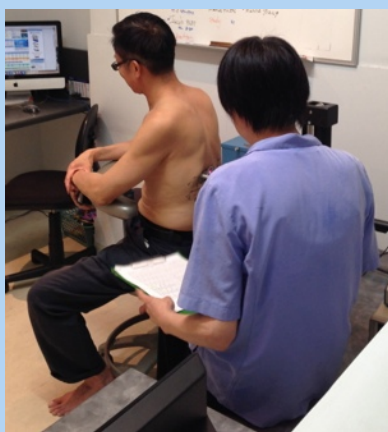
STEPS



1. PRODUCT SAMPLE APPLICATION



2. NON RESISTANT EXAMPLE!



3 POST SWEATING SOLAR SIM IRRADIATION

Claim Support

Supporting claims for resistance to sweat wash off and normally related to sunscreens. This is not a formally recognised protocol for substitution step in place of water resistance testing but can be applied to support ancillary claims in some markets.

Experimental Design

Test sample is applied at a dose of 2 mg/sq cm to areas of the intra-scapular areas of the back.

After dry down period of 15 to 30 minutes, the test subject enters the sauna and the sweat resistance experimental test time begins when profuse sweating is observed.

After each 20 minutes of the test cycle, the test subject may leave the sauna for a short recovery period. The test step is completed after 40 or 80 minutes of sweating.

Following post sauna dry off (no towelling) of 15 to 20 minutes, the test sites are exposed according to the protocol applying for the relevant SPF test.

Sweat Resistance is reported at 40 or 80 minutes.

Test product is applied according to the requirements of the corresponding SPF test protocol.

Sweat Stimulation

Sweating will be induced by having the subjects sit in a constant temperature and humidity test chamber maintained at 35°C to 40°C and 35% +/- 5% RH. These conditions are as described in the FDA Monograph for Antiperspirant test environment conditions.

After the elapsed time, equivalent to the proposed claim period, the procedure reverts to the equivalent SPF test protocol steps for irradiation of the sample test patches.

What sorts of Formulations Work?

Sweat resistance properties of a formulation tend to closely follow the water resistance. However, the test does not substitute for the water resistance claim incorporated in SPF test protocols (AS/NZS, ISO, International or FDA).

References

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

DESOP - 102 Procedure for Conduct of a Sweat Resistance Study.

DESOP - 103 Procedure for Care, Maintenance and Setup of Sauna Room.

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