LABORATORY REPORT

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Date Reported: 10/28/04
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70401
Protec' Som
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(R) Allergen Barrier - Use Simulation Test

Sample	Identification	Allergen Tested	Result (Nanograms Transferred)
0410250137	Use Simulation, Protec' Som, #Wash/Dry=100, 100% Cotton	Der f1	<0.313ng
Positive fabric control		Der f1	7.44ng
Negative fabric control		Der f1	<0.313ng

Notes/Comments: A sieved reference dust sample containing a known quantity of the indicated allergen was loaded into one side of the special dual chamber along with two steel bearings. The fabric cloth being investigated was inserted as the barrier between the empty and dust containing sides of this chamber. Each side of the chamber is a glass vial (2.1 cm diameter by 4 cm length) with a transfer surface area between the two vials of 1.13 cm^2. The chamber was rotated at 25 rotations per minute for 18 hours. The two 1/8" steel bearings in the allergen vial weighed 132 milligrams each. At the conclusion of the tumbling period, the empty side was tested for the presence of allergen by a sensitive enzyme immunoassay with a limit of detection of 1.3 nanograms of Der f1allergen. When the results of this use simulation test for a fabric are less than 1.3 ng transferred, it can be concluded that the fabric being tested is an effective barrier to dust mite allergen transfer.
Allergen Loaded: 0.250 grams of fine dust containing 132.5 nanograms of Der f1allergen.

David Williams
Contract Testing Manager

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