

LABORATORY REPORT

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70398
National Allergy
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Allergen Barrier Testing With Airflow Device

Sample	Identification	Airflow through fabric (L/min.)	Fel d1 (ng)	Der f1 (ng)
0707030586	Cotton-Guard (BedCare) Ultra	27.3	5.0	<1.3
High fabric control		34.8	570.3	178.3
Low fabric control		19.1	< 0.31	< 1.3

Notes/Comments

An apparatus based on the design reported by Vaughan, JW et al (JACI 1999; 103:227-231) was used to test allergen barrier properties of fabrics. Airflow measurements were calibrated against a fabric control with a known airflow rate. Five hundred milligrams of a dust sample with known amounts of the indicated allergens were pulled across each fabric. A filter cassette mounted downstream from the fabric collected any allergen that was able to penetrate the fabric. The filter was extracted in 2.0 mL of 1% BSA in PBS-Tween 20 overnight. The extract was assayed the following day with an ELISA for the relevant allergen. When the results of this airflow test for a fabric are less than 0.31 ng detected for Fel d1 and 1.3 ng detected for Der f1, it can be concluded that the fabric being tested is an effective barrier to Fel d1 and Der f1 allergen transfer.


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