

# Defender®



## Defender® Filter Media Facts:

- Defender® is intended to filter indoor air to reduce micro-particles as small as 0.1 micron in size, including dust, pollen, smoke, dust mites, dust mite allergens, cockroach allergens, mold spores, and pet allergens.
- Defender® is capable of removing certain types of bacteria to an efficiency of 99.999%.
- The media certification is per EN 1822-3, which is the most recent standard published for testing of HEPA and ULPA filters.
- The media manufacturer, Lydall Technical Media, provides FGI certification data with each lot and roll of filter media (per EN 1822-3).

## Bacterial Filtration Efficiency (BFE) Test:

- Standard test to determine filtration efficiency.
- Test conducted on Medi-Filter® cartridge by Nelson Laboratories.

**TEST RESULT: Defender® shown to have BFE of 99.999%.**

## Airborne Molecular Contamination (AMC) Test:

- Standard test for room air cleaners intended to remove tobacco smoke and other household odors.
- Test conducted on an Enviropure® Charcoal Filter by the University of Tulsa's Center for Environmental Research and Technology.

**TEST RESULT: Enviropure® Charcoal Filter is highly effective at removing tobacco smoke (twice the effective cleaning rate of next closest test subject).**

## Filter Efficiency Allergens:

- Test conducted at indoor air solutions.

- Allergens tested: cat allergen, dust mite allergen, cockroach allergen, dog allergen.

**TEST RESULTS: All allergens test were below detectable limits of the equipment (0.000000001/gram).**

## Filter Efficiency Test:

- Standard test to determine filter retention of aerosol particles.
- Test conducted on Medi-Filter® Cartridge by IBR.

**TEST RESULT: Medi-Filter® Cartridge has an efficiency of 99.98% at a 0.1 micron level.**

## Clean Air Delivery Rate (CADR) Test:

- "American National Standard Method for Measuring Performance of Portable Household Electric Cord-Connected Room Air Cleaners."
- Test conducted by Intertek Testing Services.
- CADR results are relative numbers indicating a devices performance to the standard.



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