



## **Dust Sampling for ERMI and Allergen Tests**

### **Sampling Method**

Select the most commonly occupied living area and choose an area to sample where dust is likely to have settled and accumulated. Record the sampled area dimensions on the Chain of Custody Form. The goal is to collect a minimum of 100 mg of fine dust. Wet areas should not be sampled, as dust will not likely be drawn into the cassette. The cassette is specially designed with an inlet port angled at 45 degrees and come preloaded with .45 $\mu$  filters.

### **Sampling with Carpet Sampler**

1. Remove the red stopper (inlet) in the sampler tube and bottom red plug (outlet) and set aside retaining for later use.
2. Connect the outlet to an air vacuum pump.
3. Start the vacuum to collect dust from the desired sample area by placing the sampler tube in contact with the sampling surface. Slightly tilt the sampler tube to one side to allow a slight gap between the sampling surface and the tube inlet. (A sampler that can remain flush against the sampling surface will decrease vacuum efficiency by restricting airflow and will prevent sample uptake).
4. Slowly sweep the sampling area from one end to the other using overlapping passes, adjusting the rate until the entire desired sample area is covered and make sure that 100 milligrams of fine dust are collected.
5. Turn off the vacuum pump. To prevent loss of material in the sampler tube, tilt the cassette tube upward before turning off the vacuum pump.
6. Remove the Carpet Sampler from the hose and visually inspect it to verify it contains enough sample. If more dust needs to be collected, repeat steps 3 through 5.
8. Replace the both red stopper and plug onto the cassette inlet and outlet. Place the cassette directly into zip-type bag. Label the sample appropriately and record the sample description on the Chain of Custody form.
9. Ship or drop off the sample(s) to AEMTEK as soon as possible for analysis.