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Sampling Efficiency Measurement Methods for Aerosol Samplers

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Abstract: Aerosol samplers and concentrators are characterized at the U.S. Army Edgewood Chemical Biological Center. The characterization methods are summarized and include (1) monodisperse fluorescent/nonfluorescent Polystyrene Latex (PSL) microspheres with fluorometric analysis or Coulter Multisizer Analysis; (2) polydisperse solid **aluminum oxide** particles with Aerodynamic Particle Sizer (APS) analysis or Coulter Multisizer Analysis; (3) liquid fluorescent oleic acid particles with fluorometric analysis; and (4) bioparticles with Coulter Multisizer, culturing, enzyme linked immunosorbent assays (ELISA), polymerase chain reaction (PCR), and APS analyses. Samples are sent out for ELISA and PCR analysis. Aerosols are generated using several methods. The PSL microsphere aerosols are generated using a Collison nebulizer, sonic nozzle, Ink Jet Aerosol Generator (IJAG), and puffers.

Aluminum oxide particle aerosols are generated using a sonic nozzle. Fluorescent oleic acid particle aerosols are generated using a Vibrating Orifice Aerosol Generator (VOAG). Bioparticle aerosols are generated using puffers (metered dose inhaler devices), nebulizers, IJAG, and sonic nozzle.

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