

Electrospray Aerosol Generator (EAG)

Category:
D. Particle Exposure Assessment

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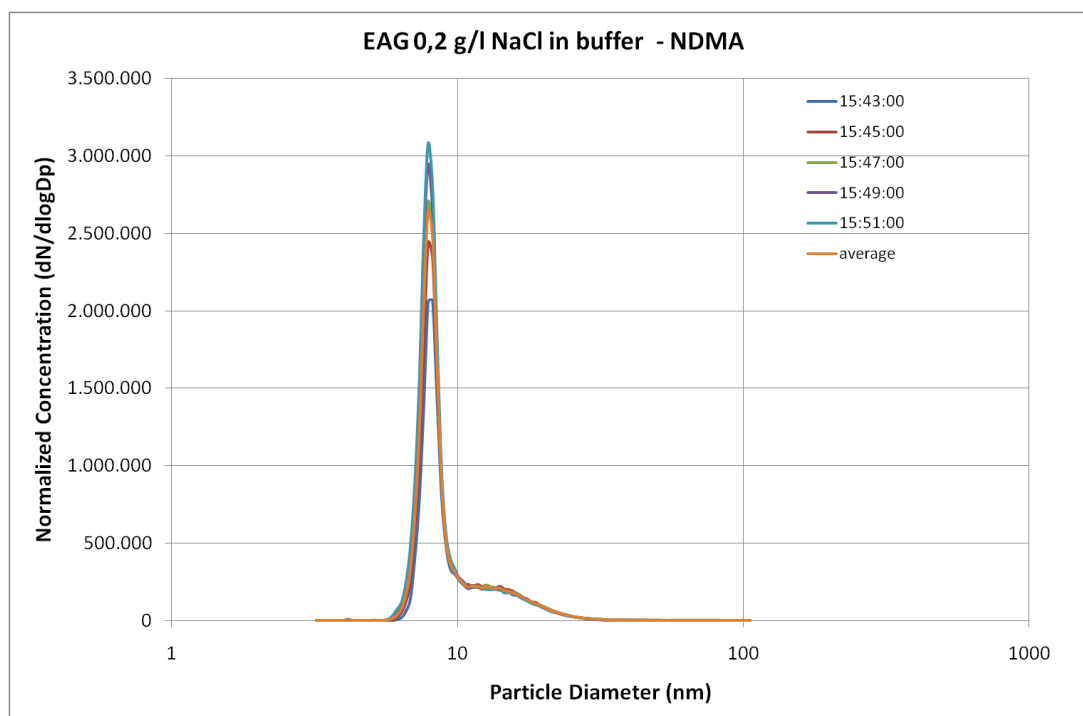
Short technology description/Overview (approx 300 words):

The Electrospray Aerosol Generator (EAG) produces high concentrations of monodisperse, submicrometer particles from 2 to 100 nm (initial droplet diameter of 150 nm, nominal). The Electrospray pushes a charged liquid solution or suspension through a capillary tube and exerts an electrical field on the liquid at the capillary tip. The electrical field pulls the liquid from the capillary, forming individual droplets. Air and CO₂ mixed with the droplets evaporate the liquid and the remaining particles are neutralized by an ionizer (Po-210).

Main Features (Equipment Capabilities):

- Particle generation rate: $>10^7$ particles/cm³
- Particle size range: <3 to >100 nm

Typical Samples & Images:



Any further Information: