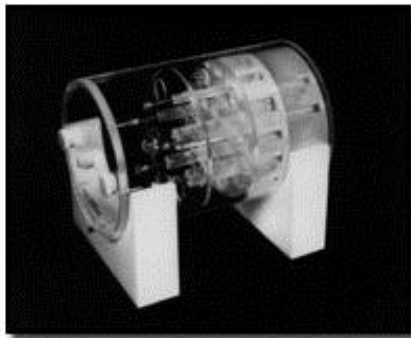




## PET/SPECT Performance Phantom



Nuclear Associates' PET/SPECT Performance Phantom is the ideal test tool for testing Photon Emission CT Systems. Photon Emission Computed Tomography (PET/SPECT) systems, like any imaging apparatus, require periodic performance testing. Nuclear Associates' PET/SPECT Performance Phantom is a modular phantom designed to provide the data for such evaluations. It offers a single system for measuring resolution, linearity and uniformity. All components of the phantom fit into the clear-acrylic PET/SPECT Performance Phantom Source Tank (model 76-823) which can be filled with a  $^{99m}\text{Tc}$ -and-water solution similar to that used for routine flood uniformity testing. Each Source Tank comes with two support blocks. An optional set of three PET/SPECT Inserts (model 76-824) includes two for resolution (one with "cold" lesions in a "hot" field and one with "hot" lesions in a "cold" field) and one for linearity/uniformity measurements. The visibility of all lesions can be varied by adjusting the concentration of radioisotope in the tank. An optional Cardiac Insert (model 76-825) is used with the PET/SPECT Performance Phantom Source Tank to mimic the human heart for Thallium-201 tests. The "heart" has a hollow "wall" which may be filled with a solution containing Thallium-201 or any other desired isotope. The insert is supported on plastic rods, to allow the entire unit to swivel a full  $360^\circ$ , or be rotated to any desired angle. Eight plastic "defects" of various sizes and shapes are included with the Cardiac Insert.

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