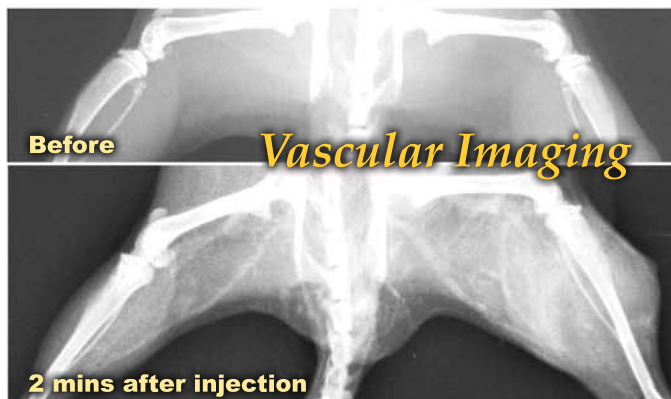


AuroVist™ 1.9nm

1.9 nm Gold Nanoparticle X-ray Contrast Agent

Features and Advantages

- Low toxicity (LD50 >1.4 g Au/kg) - **Biocompatible!**
- Low osmolality even at high concentrations
- Low viscosity: inject even into small vessels
- **Longer blood residence than iodine**
Biphasic blood clearance:
Fast component: $t_{1/2} \sim 10$ min, Slow: $t_{1/2} \sim 1.5$ hrs
- **Excellent for imaging with microCT**
- 1.9 nm gold core, $\sim 50,000$ Da
- Small gold nanoparticles clear through kidneys
- **Highest kidney contrast agent available**



X-ray of mouse hind legs in vivo and AuroVist™ 1.9nm injection. Leg on right side of image has a subcutaneous tumor, showing increased vascular gold.**

Applications

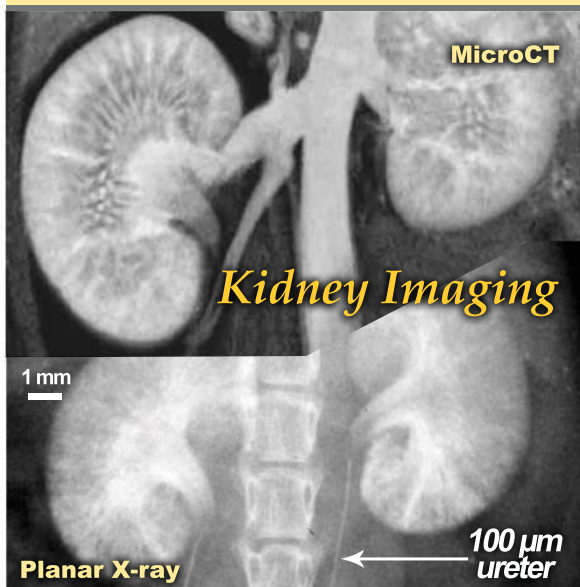
- See functioning kidneys in live animals!
- *In vivo* (virtual) vascular casting
- Used in cell-radiation studies
- Material science & nanoparticle studies

Preparations

1102	AuroVist™ 1.9 nm	40 mg Au
1102A	AuroVist™ 1.9 nm	5 x 40 mg

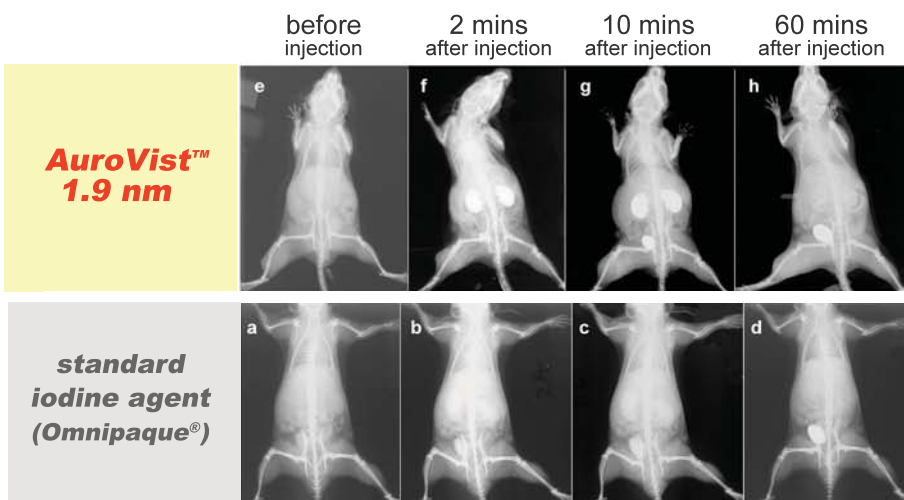
A new contrast agent for microCT and CT research*

Highly stable and soluble, non-toxic, non-viscous: Gold nanoparticles with a biocompatible shell.



Kidneys in live mouse after IV injection of AuroVist™ 1.9nm. Kidney function is visualized as small gold nanoparticles are filtered from the blood, passing through glomeruli, tubules and into ureters.**

See the difference!



AuroVist™ shows low liver and spleen uptake, and clearance via kidneys and bladder (f-h). At 60 min. (h), contrast in the AuroVist™ mouse is similar to the uninjected mouse (e), indicating efficient clearance.**



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Questions? Ask our scientists: tech@nanoprobes.com

*For research use only. Not approved for clinical use. **Taken with a mammography unit (8 mA.sec, 22 kVp).