

## Evident Technologies Announces Commercial Production of Quantum Dots for Near Infrared (NIR) Applications

### Lead Sulfide (PbS) EviDots now available in expanded wavelengths

October 12, 2005 – Troy, NY - Evident Technologies ([www.evidenttech.com](http://www.evidenttech.com)) announced today that production quantities of Lead Sulfide (PbS) EviDot® quantum dots are now available with emissions spanning into the Near Infrared Region (NIR) of the spectrum. These quantum dots are well-suited for a rapidly expanding number of NIR applications such as solar cells, deep tissue imaging in life sciences, security uses such as marking high value documents or property and brand protection needs like assuring that a product is authentic.

“In response to growing market needs and requests from our partners and customers, we fast-tracked our project to create lead sulfide quantum dots for use beyond the visible spectrum,” said Clinton Ballinger, Ph.D., Chief Executive Officer of Evident Technologies. “To our knowledge, we are the first company to make commercial quantities of these expanded wavelength nanomaterials, and we believe they will enable the development of a range of new products across many markets.”

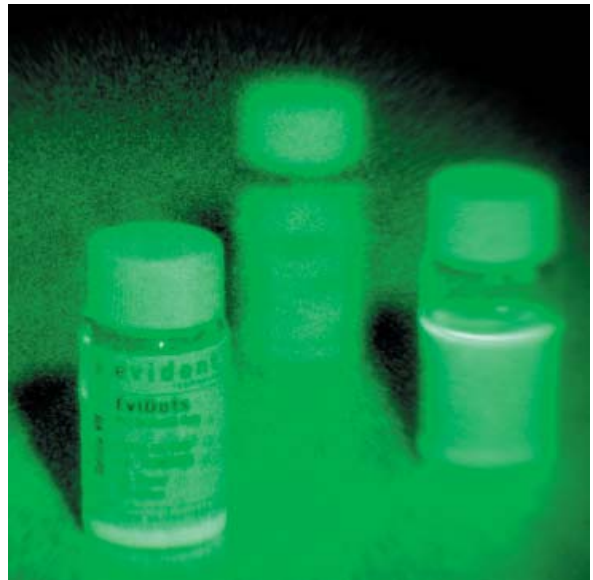
EviDot PbS quantum dots are available in wavelengths from 850nanometers (nm), which is just above the visible spectrum, to 2100nm deep into the NIR region. These wavelengths are invisible to the human eye but can readily be detected by instruments in life science and medical testing and can be used to harvest light beyond the visible spectrum for increased solar cell efficiencies.

Recent research, at the National Renewable Energy Lab (NREL), published in Nano Letters as “Highly Efficient Multiple Exciton Generation in Colloidal PbSe and PbS Quantum Dots,” has shown that EviDot lead sulfide nanocrystals can produce as many as three electrons from one high energy photon. Theoretically, such ‘multiple exciton generation’ could enable 65% of the sun’s energy to be converted to electricity.

Greg Scholes, Associate Professor, Department of Chemistry, University of Toronto, spoke about the expansion of work in the field that could be aided by Evident’s production capabilities. “We have been working with PbS quantum dots in our research for a number of years, both to advance the science and to expand the number of beneficial applications for the material. Evident’s ability to produce commercial quantities of PbS quantum dots will help to accelerate utilization of the near infrared spectral range in a number of important areas including bio-imaging, electroluminescence, lasers, solar cells, and possibly photodetectors,” said Scholes.

### About EviDot™ PbS Quantum Dots

The PbS quantum dots are available immediately with wavelengths of 850, 950, 1100, 1300, 1500, 1700 and 1900nm. 2100nm is also available as a special order. Research kits of the PbS quantum dots are also available. For information on ordering, contact Evident at 518-273-6366.



**About Evident Technologies:**

Evident Technologies is a pioneer in the development of advanced nanomaterials engineered to enable the creation of advanced products for numerous markets including life sciences, solid state lighting, energy, security, telecommunications and emergent nanotechnology markets. Evident works with customers worldwide to fashion these advanced materials into new products and is also a leading commercial source for a wide range of quantum dot material systems that offer advantages over traditional semiconductors. For more information, visit [www.evidenttech.com](http://www.evidenttech.com).

**Contact:**

Steven Talbot  
CMO  
216 River Street  
Troy, NY 12180  
(518) 273-6266  
[www.evidenttech.com](http://www.evidenttech.com)  
[stalbot@evidenttech.com](mailto:stalbot@evidenttech.com)



216 River Street  
Suite 200  
Troy, New York 12180  
phone: (518) 273-6266  
fax: (518) 273-6267  
<http://www.evidenttech.com>