

Center for Applied Nanotechnology

CANdots® Series D

CANdots® Series D are developed by CAN GmbH, based on many years of experience in the synthesis of nanoparticles.

These nanoparticles consisting of ZnO, can be doped with either Cu- or Mg-ions and show outstanding antimicrobial activity against bacteria and fungi.

The broad spectrum of activity covers pathogen germs like *Staphylococcus aureus*, *Staphylococcus epidermidis* and *Pseudomonas aeruginosa* as well as fungi like *Malassezia furfur*.

This effectiveness enables various applications in Home and Personal Care applications, in medical devices or in industrial products. For example, CANdots® Series D can be used in acne treatment or anti-dandruff formulations as well as in disinfecting agents.

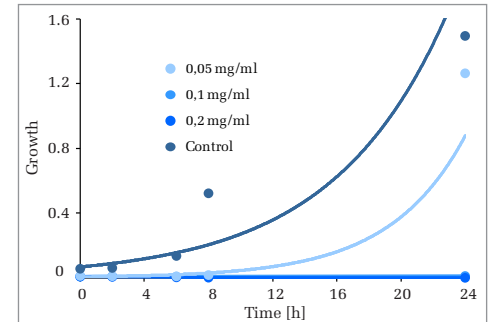


The particles of CANdots® Series D can also be incorporated into polymers without changing the mechanical characteristics. From such compounds anti-adhesive surfaces can be obtained that are used for devices or packaging.

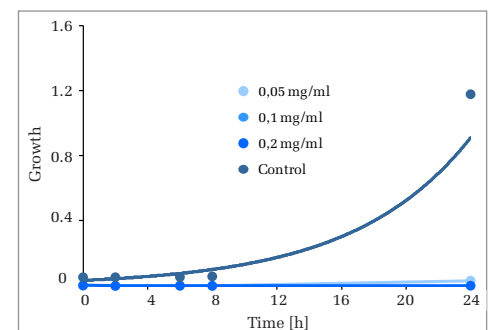
Properties	
Material	ZnO ZnO:Cu ZnO:Mg
Particle size	5 nm to > 100 nm
Geometry	dots or rods

Applications
Disinfecting Agents
Antibacterial Surfaces and Textiles
Deodorants and Anti-dandruff Shampoo

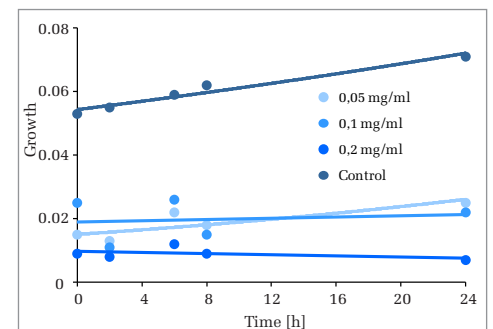
Effect of CANdots® Series D on the growth of bacteria and fungi:



I) *Staphylococcus aureus*



II) *Staphylococcus epidermidis*



III) *Malassezia furfur*

CAN GmbH
 Grindelallee 117
 20146 Hamburg, Germany
 T +49.40.42838 - 4983
 F +49.40.42838 - 5797
 info@can-hamburg.de
 www.can-hamburg.de

Contact (email)
 homecare@can-hamburg.de