

RESEARCH, DEVELOPMENT, PRODUCTION, PHYSICOCHEMICAL CHARACTERIZATION, APPLICATION AND TRADING OF NANOPARTICLES & NANOPARTICLE-CONTAINING PRODUCTS

PLiN Nanotechnology is a research driven spin-off of Aristotle University of Thessaloniki, specializing in the fabrication and characterization of tailored metal and metal oxide nanoparticles. The mission of the company is to bring stable and functionalized nanomaterials to the market, synthesized through an eco-friendly route that facilitates their global integration into both, commercial and customized products. PLiN has already some branded products, such as Ecoline and NANOSANITASTM.

Application Field

Construction Products
 Textile
 Cleaning products
 Pet-care
 Agro-Biotechnology

Services Offered to Third Parties in the following fields

- Professional integration support Quality Control
 - Stability monitoring
 Custom fabrication
- Materials analysis
 Full structural nd compositional characterization
- Product Testing
 Commissioned R&D
 Collaborative research projects

PLiN Nanotechnology S.A.

Head of the Laboratory

Dr Theodora Karamanidou

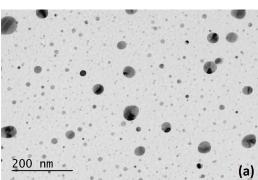
Members of the Lab/Research Team

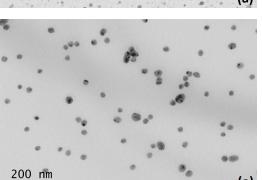
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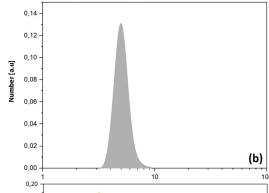
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- 0,18 0.16 0,12 0,10 0,08
- (a) TEM image of Silver Nanoparticles
- (b) Stable silver nanoparticles are carefully engineered with specific and controllable physicochemical characteristics, such as chemical composition, size, shape, morphology and surface functionalization

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- (a) TEM image of Gold Nanopar-
- (b) Tailor-made gold nanoparticles are synthesized with controllable physicochemical properties in order to obtain stable colloidal dispersions.



SilverWall is a user- & eco-friendly additive, designed to provide unparalleled efficacy and hygiene.

- Certified against bacteria/mold - No hazard indications
- Easy integration
- Market validated product



Skin-friendly Nano-Silver shields fabrics from pathogens, while eliminating all bacteria originating

- Certified functionality
- Easy integration
- Market validated product



Nano-Copper derivatives, tailored to upcoming legislative restrictions for pestides

Unparalleled efficacy

0.06

0,02

0.00

- Low environmental footprint Undergoing extensive in-vito, in-planta & in-vivo validation
- Nano-Silver and Nano-Copper inks and pastes, engineered printable nano-electronics energy conversion/exchange
- High-quality condensed solutions Highly efficient application Highly conductive

(b)

Nanomaterials are already used in many applications in various industrial sectors such as energy and environment, food & agriculture, medical, pharmaceuticals & cosmetics, electronics & computers and a great number consumer products. The future of nanotechnology looks promising and is among the fastest growing scientific sectors and in a great number of consumer products.



NanoSanitas is a PLiN trademark, debuting in a brand of nano-enhanced pet products inspired by nature. Through engineering our products down to the nanoscale, we were able to mimic nature's ability to heal, protect and repel, using Nano-Silver as a physical shield to pathogens.

