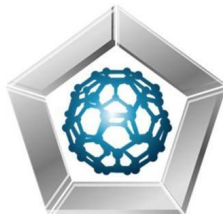


# TESTING SUMMARY

Product: XPert® Nano™ System  
LABCONCO INC.



**NANOSAFE** INC.

## TEST OVERVIEW

NanoSafe, Inc. independently evaluated the generation and containment of a controlled nanoaerosol inside a Labconco XPert® Nano™ System.

Testing was designed to measure particle number concentrations at locations inside the enclosure, around the sash opening, and at the exhaust of the enclosure's ultra low penetration air (ULPA) filtration system.

Test methods integrated aerosolization and characterization strategies described in recent peer-reviewed studies and one standard test method developed for fume hoods.

## RESULTS

A controlled nanoaerosol with an average particle size of 20 nm was generated within the enclosure.

Comparing measurements inside the enclosure and at the sash opening, containment of aerosolized nanoparticles could conservatively be expressed as approximately 99.99%.

Sampling in the ULPA exhaust flow showed zero particles and indicated no leakage of particles greater than 7 nm diameter past or through the ULPA filter.

## PRODUCT INFORMATION

The XPert® Nano™ System provides user protection by keeping hazardous powders and particulates contained during procedures such as nanoparticle manipulation and dry powder chemical handling. The patented containment enhancing design features maintain user protection by drawing room air into the front of the enclosure, sweeping the cabinet interior, pulling the air to the back through the patented baffle, and filtering the air through a 99.999% bag-in/bag-out ULPA filter before returning the clean air to the laboratory. The all stainless steel interior (sides, worksurface, removable baffle and removable airfoil) is designed for easy wipe down and cleaning procedures. An optional built-in ionizer neutralizes static charge on interior surfaces by emitting ions into the airstream, which helps reduce weighing errors and attraction of particles to the enclosure surfaces.

Source. Labconco, Inc.



## NANOSAFE TESTED™

Visit [www.nanosafeinc.com](http://www.nanosafeinc.com) for important information about the NANOSAFE TESTED™ program.

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