

# Frequently Asked Questions veriDART™ by SafeTraces

2020

## **WHAT IS THE VERIDART SPRAY? IS THE DNA ACTIVE?**

veriDART is a safe solution that mimics the mobility and exposure levels of respiratory droplets and aerosol. It uses FDA GRAS (Generally Recognized as Safe) materials, and is clear and odorless. DNA is used in trace amounts to safely track airborne contaminants, is non-coding and non-living.

## **IS IT SAFE FOR THE STUDY TO BE PERFORMED WITH PEOPLE OCCUPYING THE SPACE?**

Yes. veriDART is safe and can be released while buildings are occupied. It adheres to the highest levels of product safety and is well below the OSHA and NIOSH safe exposure limits.

## **WHAT IS THE PARTICLE SIZE DISTRIBUTION OF VERIDART'S TRACEABLE AEROSOL?**

Particle size is informed by respiratory aerosol range.

## **WHAT MEASUREMENTS OR CALCULATIONS ARE USED TO COMPARE THE AEROSOL RELEASES VS. WHAT IS FOUND THROUGH A SAMPLE?**

veriDART measures the logarithmic reduction of tracers across an indoor space. The tracers are released at a known concentration at origin points and sampled across an indoor space with pump-based



air samplers and surface swabs. Data analysis measures the difference in DNA detection level between the origin point and sample point and connects to diagnostic risk thresholds.

## **CAN VERIDART BE USED TO DETERMINE IF A VIRUS IS DENATURED AFTER THE USE OF UVC OR BIO IONIZATION TECHNOLOGY?**

Not at this time, though this is something that is actively being explored.

## **WHO IMPLEMENTS THE VERIDART STUDY AND DESIGN?**

EHS/IH consultants as well as IAQ, HVAC, and mechanical contractors, work with SGS on a client needs assessment to determine test methodology and scope to provide the client with a quote and

test plan. Once approved, veriDART is delivered by the consultant. SGS processes the samples, and SafeTraces provides the final report to consultants with their commentary.

## **WHAT IS THE TYPICAL DURATION OF AN IN-FIELD STUDY?**

It depends on the scope and complexity of the project. Most on-site work can be completed in 4 to 8 hours. Large studies can take multiple days.

## **HOW MANY TRACERS CAN BE USED IN A STUDY? CAN THE TRACERS BE RELEASED AT THE SAME TIME?**

veriDART currently offers 20 distinct tag solutions. They can be released simultaneously at different origin points to observe airflow across different zones.

*in collaboration with*



## HOW LONG DO YOU WAIT AFTER YOU RELEASE THE TRACERS TO COLLECT THE SAMPLES? \_\_\_\_\_

For survey tests, samples are usually collected 30 minutes after the spray has been released. For a typical dilution test with four air samplers, each air sampler runs from 15 to 60 minutes, with sample taken at three to four intervals during the time period.

## HOW CAN THIS TECHNOLOGY BE USED OUTSIDE OF COVID RELATED STUDIES? \_\_\_\_\_

veriDART is valuable for a variety of issues relating to air ventilation and filtration including:

- Infection control for other airborne pathogens (e.g., influenza)
- Supplementing building commissioning, engineering design, and testing, adjusting, and balancing (TAB) services
- Verification of containment zones, clean rooms, and other spaces requiring high levels of indoor air quality

## HOW DOES THIS DIFFER FROM TRACER GAS STUDIES AND HOW CAN THIS TECHNOLOGY COMPLETE AND VERIFY ENGINEERING CALCULATIONS/STUDIES? \_\_\_\_\_

Gaseous compounds, such as tracer gases like sulfur hexafluoride (SF<sub>6</sub>) and nitrous oxide (N<sub>2</sub>O), are intended to validate ventilation and air containment, not necessarily as an indicator of pathogen mobility. veriDART is the first and only mobility indicator for airborne pathogens.

## ONCE THE STUDY IS COMPLETE, HOW QUICK IS THE TURNAROUND TIME TO RECEIVE THE FINAL REPORT? \_\_\_\_\_

Once the samples are received by the SGS lab, it typically takes 7 – 10 business days for the final report to be completed. We will try to accelerate the turnaround time in particular cases, if necessary.

## CAN YOU COLLECT AIR SAMPLES AND SWAB SAMPLES TO DETERMINE CONCENTRATION OF AEROSOLS IN AIR AND SURFACE? \_\_\_\_\_

We most commonly perform air sampling tests. Please contact SGS to discuss fomite testing, if needed.

## DO YOU HAVE A SAMPLE REPORT? \_\_\_\_\_

Yes. Please contact SGS to receive samples.

## WHAT OTHER TECHNOLOGIES CAN YOU USE WITH THIS STUDY TO COMPLETE A FULL IAQ EVALUATION? \_\_\_\_\_

- SGS SmartSense continuous real-time IAQ unit  
[www.sgsgalson.com/smart-sense](http://www.sgsgalson.com/smart-sense)
- SARS-CoV-2 air/swab analysis  
[www.sgsgalson.com/covid-recovery-services](http://www.sgsgalson.com/covid-recovery-services)

## I'M INTERESTED IN OFFERING THIS TECHNOLOGY TO MY CLIENTS, NOW WHAT? HOW DO I BECOME SAFETRACES CERTIFIED? \_\_\_\_\_

SafeTraces is teaming with SGS for the delivery of veriDART. Please contact SGS to get a quote. SafeTraces offers a veriDART Certification Program. Please contact Michael Clark, [michael@safetraces.com](mailto:michael@safetraces.com), to enroll.

**TO FIND OUT MORE ABOUT ENVIRONMENT, HEALTH & SAFETY SERVICES CONTACT**  
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