

## Personal Health Screening Using Bio Markers at Point-Of-Care

### Introducing the compact and cost-effective spectroscopy-based point-of-care platform "ATTO S"

#### *Personal Health Screening Platform*

Spectroscopy is one of the most powerful and versatile analytical technique for a wide range of applications, yet it has traditionally been complex, bulky, costly and thus difficult to implement at large scale. Our solutions tackle the issue by tuning our devices to specific customer needs. Pairing our systems with tailor-made bio markers offer new avenues for personal health care.

Here, we present a novel, field-deployable and portable, in-vitro diagnostic health care platform and showcase the detection of neutralizing Antibodies (nAbs) as an example.

#### *The Thrixen CoVIm Platform - Our Response to the Pandemic -*

The COVID-19 pandemic had devastating effects on lives globally. Triggered by the pandemic, we, at Attonics, teamed up with experts in the field of medical diagnostics and co-developed a **nAbs detection** platform measuring and confirming **vaccine effectiveness**. The Thrixen CoVIm System is an integrated platform of a vertical flow assay (CoVIm Test) and read-out system (ATTO S). The system is designed to measure (qualitatively and quantitatively) the presence of nAbs against SARS-CoV-2 virus spike-protein in a sample volume of 30 µl taken from finger prick or venipuncture.

#### *Our Partner*

Thrixen Pte Ltd is a fast-growing Biotech startup aiming at replacing the incumbent antibody-based immunoassay technology with a protein engineering platform. Their protein engineering platform allows rapid generation of high affinity binder proteins that can be adapted to any bio marker thereby unlocking a plethora of personal health screening scenarios.

#### *Contact Us:*



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#### *Our Solution:*

## ATTO S

**In-vitro diagnostic platform combining fluorescence sensor and spectrophotometer in one turn-key solution**

- Compact, table-top system: 20 x 20 x 20 cm<sup>3</sup>
- Weight: < 5 kg
- Dual Sensor Platform:
  - Spectrophotometer: 380 - 750 nm
  - Fluorescence Sensor Unit:
    - 590 nm excitation
    - 600 nm emission
- Fully integrated, turn-key solution
- Soteria Software: Medical SW analysing your vaccination status



*IVD Platform "ATTO S"*

- Plasma or whole blood samples
- Analysis speed: 15 sec / sample

#### *Our Partner:*

## THRIXEN

Unlocking the next generation of simple, affordable & accessible medical diagnostics

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