

Disruptive point of care diagnostics by NATLab

ADOR Diagnostics, Dr. Eran Zahavy, CEO

ADOR Diagnostics is an innovative diagnostics (IVD) company with its primary R&D and operations based in Israel, Italy, and Germany. It has made substantial investments in pioneering technology to create a groundbreaking Point-of-Care (POC), sample-to-answer, syndromic multiplex diagnostic system.

This cutting-edge development includes the development of a unique molecular biology Isothermal amplification method known as PA/RCA. Additionally, ADOR has introduced a unique electronic carbon-based multiplex sensor, disposable cartridges, and a versatile benchtop instrument. The company takes pride in extensive patent protection, ensuring the safeguarding of its innovative concepts.

The inaugural product of ADOR is the NATlab, a revolutionary POC & benchtop modular MDx platform based on the PA/RCA method. The NATlab technology comprises an analyzer and a disposable integrated cartridge, enabling fully automatic sample-to-answer processing of clinical samples. With remarkable speed, the system can conduct rapid testing (90 minutes) for up to 100 targets within each cartridge, rivalling the precision of the best gold standard PCR methods.

Multiple cartridge panels are currently in development for the NATlab, catering to various diagnostic needs such as Respiratory Diseases, Sexually Transmitted Diseases (STDs), Meningitis, and more.

The utility of the NATlab extends beyond traditional diagnostic applications, serving as a valuable tool for outbreak detection and management. By utilizing anonymous data and integrating it into a geographic information system (GIS), ADOR's system aids in real-time monitoring and provides factual data on all detected infectious diseases. This proactive approach can aid in suppressing new outbreaks and mitigating the impact of potential pandemics.

The technology developed by ADOR also finds applications in the field of liquid biopsy markers detection and microbiome research and is being extensively tested and validated by leading universities. This showcases the versatility and potential of ADOR's groundbreaking innovations.



The NATLab, by ADOR Dx