

News

Eluceda Develops 'Two-Minute' Covid Vaccine Authentication Test

Detection and anticounterfeit technology specialist Eluceda has developed a rapid, accurate and easy-to-use testing solution for detecting counterfeit Covid-19 vaccines in the field – providing a practical authentication solution that doesn't require centralised testing infrastructure or specialised personnel.

Existing vaccine authentication methods tend to rely on relatively scarce, expensive, and centralised equipment with samples often having to travel across borders, leading to lengthy waits on test results. By providing rapid, cost-effective, and portable authentication technology that requires little training to use, Eluceda hopes to both improve confidence and safety in vaccine use.

Eluceda's solution is based on its E-Sens™ rapid testing device which can analyse the unique electrochemical 'fingerprint' of covid vaccines and other liquids. When presented with counterfeit or adulterated vaccines, the reader will compare the 'fingerprint' of a relevant sample against genuine vaccines – providing results in less than two minutes.

Dedicated software records test data which can be uploaded to a database accessible by authorised stakeholders across the world. Other relevant data such as time, geolocation and information specific to the electrochemical 'fingerprint' are also logged, allowing for decentralised analysis and for trends to be identified quickly and efficiently.

The test process involves acquiring a relevant sample, inserting a small sensor into the E-Sens™ reader, which is connected to a mobile phone, tablet or PC, and dropping a small amount of liquid onto the sensor. These specialised sensors are designed to be disposable and are able to detect small variations in electrochemical signal, caused by dilution, contaminants, etc.

“Both public and professional confidence is an absolutely critical component of vaccine use and counterfeits pose a serious risk to maintaining that confidence,” said Dr Ian Eastwood, CTO at Eluceda. “Putting accurate and easy-to-use authentication technology in the hands of people best placed to detect and ultimately stop counterfeits is a powerful tool in maintaining that confidence and protecting the health of people around the world.”

The simplicity of Eluceda's authentication solution allows for a diverse range of stakeholders to carry out authentication tests such as enforcement personnel, customs officials, logistics providers and even medical professionals.

Even before the pandemic, the World Health Organization estimated that 1 in 10 medical products in low- and middle-income countries were substandard or falsified¹. Reports of fake Covid vaccines appeared in early 2021 with distilled water, saline solutions or anti-wrinkle treatments being sold as the vaccine².

A white paper with more details on Eluceda's Covid vaccine authentication solution can be found on the Eluceda website here: https://www.eluceda.com/vaccine_authentication

Alternatively, you can contact Eluceda directly by emailing: info@eluceda.com or via Eluceda's contact page: <https://www.eluceda.com/contact>

About Eluceda

Eluceda is a detection technology business that delivers powerful solutions for a wide range of applications including product & brand authentication, biological & chemical testing and in vitro diagnostics. Our mission is to make the world a safer place by delivering quicker, cheaper and more portable detection technologies, that provide laboratory level accuracy at the point of use. For more information on Eluceda and its range of technologies visit its website at www.eluceda.com


