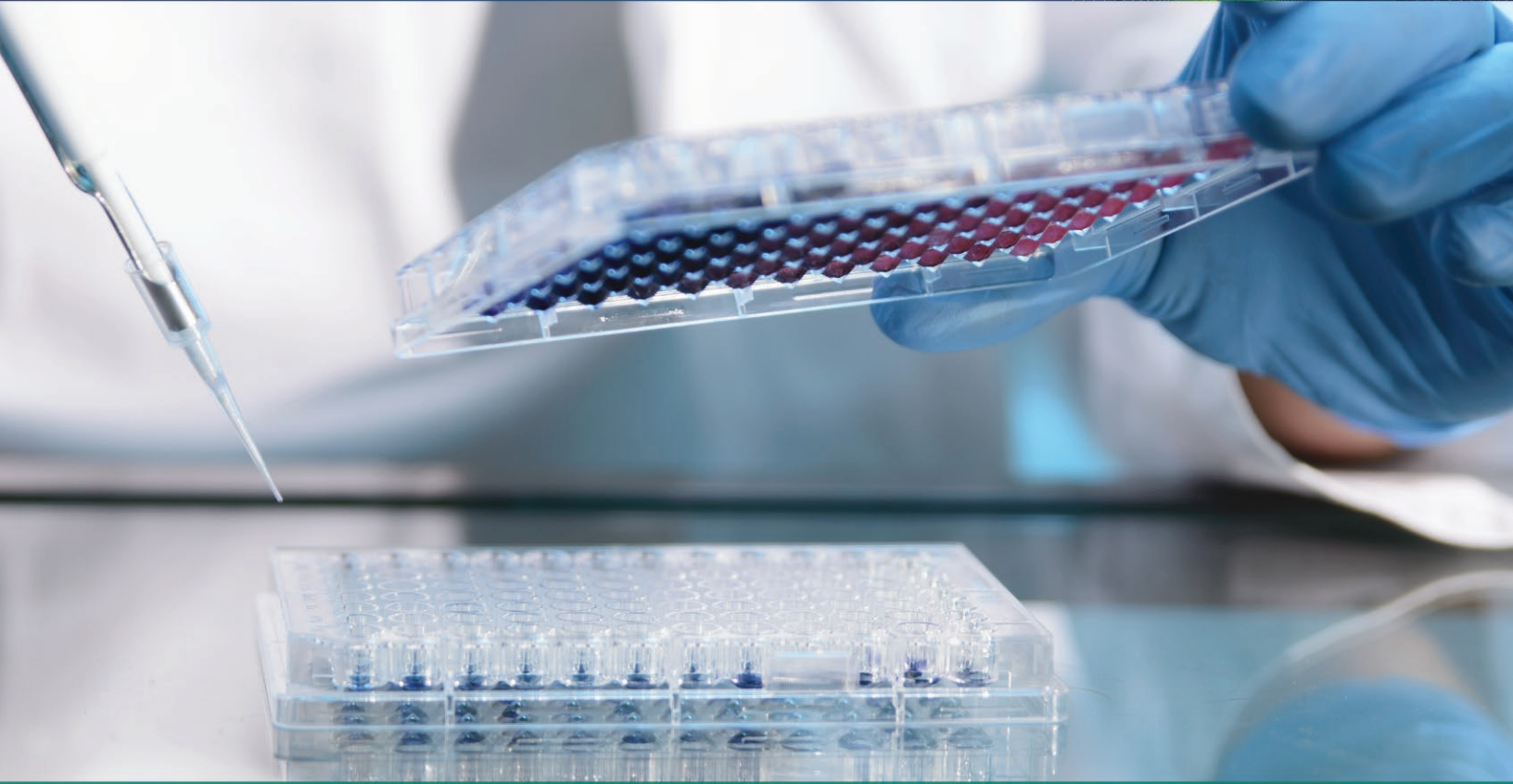


Accelerating Innovations into CarE – Validate Program (AICE-Validate)



Commercializing a colorimetric, label-free immunoassay

PROJECT FAST FACTS

RECIPIENT: Pavonis Diagnostics Inc.

AWARD: \$230,000

AWARD DATE: December 15, 2022

PROJECT DURATION: 24 months

PAVONIS
DIAGNOSTICS ● ● ● ● ●

THE PROBLEM

Engineered antibodies play a crucial role in human and animal health, aiding in research and diagnostic tests. These tests, also known as immunoassays, are used to detect and measure substances in the body. However, conducting antibody testing and immunoassay formulation requires hundreds of thousands of dollars of investment in specialized equipment and technologies. These tests may also require the use of specific labels, such as enzymatic or fluorescent markers. The need for specialized readers and labelled antibodies is a major challenge in expanding clinical testing to locations closer to patients or in remote areas.

THE SOLUTION

The Pavonis Diagnostics technology aims to disrupt the traditional immunoassay laboratory and consumer medical markets. Their technology removes the need for special imaging kits and labelled antibodies for quantification. Pavonis has designed, engineered and validated a label-free, thin-film diagnostic platform for immunoassay and/or antibody validation. The test connects to a cloud-based platform using a smartphone or digital camera to facilitate data collection, analysis, and quantification. This platform yields rapid and sensitive results allowing timely interventions. Moreover, the label-free nature of this technology simplifies the steps and platform, reducing the need for complex or specialized technology, radio/fluorescent labels while reducing errors.

PROJECT OBJECTIVES

Pavonis intends to validate processes and products that will enable them to enter the market for antibody validation testing in the research industry, and retail antibody & antigen testing for infectious diseases and acute care.

ABOUT THE AICE-VALIDATE PROGRAM

AICE-Validate is an opportunity for Alberta's health-tech innovators to accelerate commercialization of digital and data-enabled health technologies through the early validation phase. If you'd like to learn more, please check out [AICE Validate on the Alberta Innovates website](#).

Learn how

albertainnovates.ca