

Media Release

Clearbridge BioLoc derives “wet-lab” ELISA+ capability on their Lab-on-card Test-card

19 July 2013, Singapore – Singapore-based medical device company, Clearbridge BioLoc, announced today, the successful enhancement of their Lab-on-card Test-card to facilitate “wet-lab” ELISA¹ assays to be completed in almost any setting and location in under 30 minutes. The standard ELISA protocol is generally recognised as the golden standard for immunoassay and is usually adopted as the method of detection in central lab settings due to its high sensitivity. However the long turnaround time with this method can cause a delay in the clinician’s diagnosis and subsequently the treatment prescribed to the patient. The ability to perform an ELISA assay under 30 minutes has opened up the possibility of offering a highly sensitive diagnostic solution at the point-of-care.

ClearQuest, the new test-card platform, aims to further the company’s ability to provide lab-quality tests at the point-of-care, without the need for expensive equipment nor highly trained personnel. Building on their existing platform’s affordable, disposable test-cards with in-built wet-reagent handling capability, Clearbridge BioLoc capitalised on microfluidics’ innate ability to provide greater surface area interaction of reagents. This has significantly shortened reaction times, thus facilitating results within a much shorter timeframe.

This combination of features potentially enables healthcare professionals or patients to perform lab-quality tests at the point-of-care or even at home that derive results in minutes, enabling treatment decisions to be made on-the-spot. Furthermore, the ClearQuest™ has been developed in a manner to be truly standalone and not require power to address its use in low-resource settings.

The ClearQuest™ test-card format, whilst being a standalone qualitative testing solution, customisable to a plethora of tests, will soon be further enhanced to be compatible with our AssayQuest™ platform². This would facilitate automated activation, processing and analysis of the loaded test sample and enable quantitative results reporting. This future product development will

¹ *Enzyme-linked immunosorbent assay (ELISA) – this is a sensitive biochemical test for detecting a target compound in a solution. ELISA tests can be used for the detection of diseases, pathogens or drugs.*

² *The AssayQuest™ system is based upon a patent pending technology and has been developed in Singapore.*

provide Clearbridge BioLoc with an all-round solution that will not only prove valuable to healthcare professionals at point-of-care scenarios, but also as a practical diagnostic tool for use in low-resource settings.

Clearbridge BioLoc is now engaging with partners who can benefit from the effectiveness of ClearQuest™ in various ways, including during consultation at medical points-of-care, field use in remote locations, on-site veterinary diagnostics for large animals, determinations at immigration points, and for use in ensuring food safety.

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About Clearbridge BioLoc

An incubatee company of Clearbridge Accelerator, a Singapore National Research Foundation (NRF) backed medical technology incubator, Clearbridge BioLoc is developing a novel yet cost-effective analytical system, which allows small quantities of biological samples to be rapidly processed remotely.

Known as AssayQuest™, Clearbridge BioLoc's product is a fully automated analytical system that can potentially perform standard immunoassay tests from a finger-prick blood sample. This invention allows the injection and incubation of self-contained reagents, to generate results on a highly customisable blister format. Using this elegant, inventive blister pack cum roller pump technology, the lab-on-card together with with a simple roller-based reader will potentially allow any standard blood test to be customised and performed in the field.

Media enquiries can be directed to:

Melvin AU

Clearbridge BioLoc Pte Ltd

Mobile: +65 9646-5778 (+8 GMT)

Email: melvin@clearbridgebioloc.com