



## **VereFever™ Lab-On-Chip for the Simultaneous Detection of Tropical Infectious Diseases including Malaria, Chikungunya, Dengue and Zika**

**Singapore, Sept 07, 2016** –Veredus Laboratories Pte Ltd (“Veredus”), a leading provider of molecular detection tests announced today, amidst international concerns of the spread of Zika Virus, the successful development of VereFever™, a Lab-on-Chip application that is able to detect, from a sequence perspective, the Zika virus that causes this disease.

VereFever™ is able to detect, differentiate and identify 7 different major tropical diseases from a single blood sample, including Malaria, Dengue, Chikungunya, West Nile, Yellow Fever, Japanese Encephalitis and Zika by using the STMicroelectronics proprietary Lab-on-Chip platform that integrates two powerful molecular biological applications, Polymerase Chain Reaction (PCR) and a microarray.

Unlike existing diagnostic methods, VereFever™ is a breakthrough molecular diagnostic test that can detect infection within two hours to provide genetic information of the infection that traditionally could take days to weeks to learn. With its high level of automation, users outside the traditional lab environment can easily perform the tests at the point-of-need. As these diseases often present itself with common symptoms like fever, it is not easy for doctors to make accurate diagnosis early in the infection.

“With the capability of VereFever™ to detect and differentiate Malaria, Dengue, Chikungunya and Zika in high sensitivity and specificity, we are now better equipped to make earlier informed decisions,” said Dr Mitsuharu Sato, R&D Director of Veredus. “We started to design VereFever™ about 1 year ago to tackle the challenges of early identification of symptomatically similar vector borne diseases VereFever™ is a test that looks at the genetic profiles of the pathogens, providing accurate and rapid diagnosis. In addition to the capability to identify the viruses, VereFever™ can also subtype Malaria and serotype Dengue for epidemiology studies.”

“The ability of VereFever™ to simultaneously lock on multiple segments of the genes of these pathogens enables it to identify the different viruses with a much higher degree of confidence compared to other tests. This capability is made possible with a DNA array on a Lab-on-Chip that allows it to detect and differentiate multiple pathogens in one test

saving time and resources,” said Dr Rosemary Tan, Chief Executive Officer and Founder of Veredus. “The versatility of our design and ease of use of the system will enhance our approach to diagnostics. VereFever™ is in the midst of being deployed to several users in Asia and China.”

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### **About VereFever™**

VereFever Lab-on-Chip developed by Veredus Laboratories, a Singapore-based medical diagnostics company is a portable lab-on-chip assay for the rapid detection of 7 major tropical diseases in a single test. Unlike existing diagnostic methods, VereFever is a breakthrough molecular diagnostic test that can detect pathogens with high accuracy and sensitivity, within two hours, to provide genetic information of the infection that traditionally would take days to weeks to learn. With its high level of automation, users outside the traditional lab environment can easily perform the tests at the point of need,

### **About Veredus Laboratories Pte Ltd**

Veredus was founded in 2003 and launched its first products in 2005. Veredus specializes in the development, manufacture, and marketing of innovative multiplexed molecular solutions in the clinical, specialty, and custom testing markets based on STMicroelectronics' proprietary Lab-on-Chip platform. The Lab-on-Chip platform, marketed as the VerePLEX™ biosystem, combines Micro-Electro-Mechanical-Systems (MEMS) with micro-fluidics to integrate multiplexed DNA amplification with microarray detection for rapid, cost-effective, and accurate analysis of biological materials.

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