BioSpectrum
the business of Bio & Health Sciences
ASIA EDITION

Singapore's One BioMed launches platform for automated extraction of high molecular weight DNA

May 22, 2023 | News

World's first out-of-the-box, automated platform for extraction of HMW DNA



Singapore-based startup One BioMed has announced the launch of the X8 HMW DNA Cartridge Kits for the automated extraction of high molecular weight (HMW) DNA for use in long-read sequencing and genome assembly.

Inclusive of all the necessary reagents, the X8 HMW DNA Cartridge Kits, powered by the OneTouch Instrument, is the world's first out-of-the-box, automated platform for extraction of HMW DNA from a myriad of sample types like bacteria, plants, cell culture, tissue and Peripheral Blood Mononuclear Cells (PBMCs).

Long-read sequencing is a 3rd generation technology that sheds light on certain "blind-spots" seen in short read sequencing methods such as the detection of complex structural variants. However long-read sequencing requires isolation of high-quality, HMW DNA which can be challenging to obtain.

Most commercial extraction technologies compromise the quality and length of the extracted DNA, as they include mechanical steps like centrifugation or vortexing, and/or alcohol precipitation in their labour-intensive workflows.

One BioMed's patented Xceler8 technology is re-defining nucleic acid extraction, by using a gentle, yet rapid chemistry-based method to selectively bind, gently cluster and purify intact DNA using controlled fluidics. The specially formulated workflow is also non-volatile and ethanol-free, ensuring hassle-free shipping and storage at room temperature.

One BioMed has partnered with experienced distributors across APAC and is looking to expand its commercial presence in EMEA by the end of the year. The X8 HMW DNA Cartridge Kits will start shipping inJune 2023. One BioMed also plans to launch kits for extraction of RNA from Tissue and Viral Samples by Q4 of 2023.