

UMT researcher develops state-of-the-art TAL Kit from horseshoe crab blood

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By [NURULJANNAH ANAM](#) - November 1, 2017 @ 10:14am

KUALA NERUS: A Universiti Malaysia Terengganu (UMT) researcher has successfully developed a Quick Endotoxin Detecting Kit (TAL) based on her in-depth research of horseshoe crabs in the country.

The TAL Kit, produced from horseshoe crab blood, has proven to be able to detect bacterial contamination in drugs and injection equipment.

Additionally, it could be used to analyse the purity of medicines used on humans.

Associate Professor Dr Noraznawati Ismail, a Marine Biotechnology Institute (IMB) deputy director and project head, said the kit produced is at par with endotoxin detectors imported from abroad.

"We chose to study the horseshoe crab because of its blood. There are three types of horseshoe crab in Malaysia; pantai, bakau and Sabah – but only two of these types are suitable to be commercialised," she said at a press conference on research and innovation at Malim UMT.

Dr Noraznawati said the kit has been validated by laboratory reviews.

"We hope that this kit will help the pharmaceutical industry in the country. But we will also market this kit for commercial purposes beginning next year.

"If this product receives a good response, we plan to expand the market by penetrating Thailand, Brunei, Singapore and Japan," she added.

Dr Noraznawati said the research project started in 2009 after she received a RM1.9 million grant from the Science, Technology and Innovation Ministry.

Translated from [Berita Harian](#)