









BRIEF PRODUCT INFO

NanoArms Sdn. Bhd. has taken up an initiative to create a biosensor kit which can be used as a new alternative yet efficient technique in capturing specific interest molecules. A heavy metal biosensor that has a high selectivity and offers a limit of detection as low as sub-ppb level. The detection process can be done by mixing our surface-modified gold nanoparticles with a sample solution. If heavy metal ion is presence, the solution will change color from red to blue. This change can be seen even by the naked eye. The detection can be incorporated to a smartphone through an adapted chamber. Within 5 minutes the signal can be acquired, and the data can be uploaded to a cloud server.

PITCH INFO

Determination of the pollutant in the environment is vital to discover a targeted region for the remediation process. Available instruments are very sensitive and reliable, however, they come with a very high cost, are laboratory bound, often operated by highly trained personnel, and are less practical for a robust in-situ analysis.

The underlying science in the product is unique. We use gold nanoparticles and modify their surface so that they can capture pollutants (heavy metals) and initiate a sensing signal that can be seen by the naked eye for in-situ analysis. The gold nanoparticles were modified with a set of ligands that were specially designed by our team. The complexity between these two compounds has made it a complete biosensor and ready to be used.

Our potential customers are the department of environment, universities, oil and gas companies.

MARKET VALIDATION ACHIVEMENT / TRACTION SALE



NEXT MILESTONE

We are asking for partnership with local and international investors

TEAM'S MEMBER



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STARTUP NAME & LOGO





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