AgroSpectrum ASIA
Envisaging Future | Updating Present

Chinaâ??s Assure Tech to launch a pet health-tech solution platform

07 March 2023 | News

Presents Five Comprehensive Health-tech Solution platforms (colloidal gold, fluorescence immunoassay, POCT, microfluidics, and nucleic acid POC) for overall well being of pets



Presents Five Comprehensive Health-tech Solution platforms (colloidal gold, fluorescence immunoassay, POCT, microfluidics, and nucleic acid POC) for overall well being of pets

China headquartered, Assure Tech to launch a comprehensive pet health solution empowering pet wellbeing with technology. Assure Tech has created five technological platforms to promote pets' healthy growth in all aspects.

The full range of comprehensive high-quality platform solutions offers care and well-being of pets for owners and veterinarians.

Health-tech Solution platforms comprises five technological platforms: **colloidal gold, fluorescence immunoassay, POCT, microfluidics, and nucleic acid POC.** The solutionÂ includes nearly 100 items that are convenient, rapid, and accurate for pet owners and veterinarians.

Among these, the **colloidal gold platform** offers a new option for quick pet diagnosis. Assure Tech's fast testing systems can reliably detect and diagnose common diseases in pets. Veterinarians can diagnose many different common pet diseases quickly and conveniently with its fast and convenient performance, improving pet cure rates and reducing treatment time.

Similarly, the **fluorescence immunoassay platform** builds a new engine for antigen, antibody, and inflammatory diagnostics. With Assure Tech's fluorescence immunoassay platform, users can instantly determine whether a pet carries a specific disease by measuring antigens, antibodies, inflammation, and other crucial indicators. This helps in monitoring pets' health status in real time.

The **POCT platform** offers a novel technique for diagnosing blood ketone and glucose levels in pets.Â If human glucose and blood ketone monitoring systems are used on pets, glucose and blood ketone levels could be lower or higher. In order to

ensure the accuracy of pet diagnosis, Assure Tech has created a glucose and blood ketone monitoring device that is based on the differences between humans and animals. Testing allows pet owners to make informed therapy decisions based on reliable test results. Since the test strips are user-friendly and have a tiny sample size, they are convenient for veterinarians and pet owners to use at home.

The **microfluidic platform** develops a new approach to biochemical diagnostics. Biochemical diagnostic project, based on the microfluidic platform, uses a fully automated biochemical analyzer to evaluate whole blood, serum, and plasma samples, in order to diagnose various pet diseases, which provides owners with details on electrolytes, liver function, kidney function, and other key diagnostic data.

The **LAMP platform** opens a new frontier for the nucleic acid detection of pet diseases. The pet nucleic acid diagnostic test by Assure Tech is based on its proprietary LAMP platform for the nucleic acid detection of pathogens in pets (cats and dogs) and human-pet co-morbidities. It can precisely identify infected pathogens within 30 minutes, thereby providing a sound scientific basis for the prevention and treatment of pet diseases.

The pet economy has grown to a $100 billion global industry owing to the strong demand for pet-related products and services. Currently, pet healthcare services play a crucial role in this sector as a result of high market demand and high consumption expenditures.

The pet healthcare market is the second-largest segment of the pet market after pet food. It provides routine medical care as well as pet diagnosis and treatment, including surgical procedures, internal illnesses, skin diseases, infectious diseases, and vaccinations. Acute onset and rapid transmission of infectious diseases caused by pathogenic microorganisms, such as bacteria and viruses, pose the greatest threat to pets. Having improved medical standards, the pet healthcare industry has developed a variety of detection platforms suitable for different scenarios, based on a trustworthy diagnosis of animal diseases.