



GALENVS

Genomic **nan**otechnologies



Solutions for Diagnostic Workflow

Biotech Challenge



Clean



Modify



Target



Precision Solution



Nanomaterial and Reagents

- Proprietary technology for the design, control, and synthesis of magnetic nanoparticles (MNPs)
- Large volume production process (upto 10kg/month)
- Tailored surface chemistry and functionality
- Customized buffer and reagent formulation

Applications

- Development and optimization of sample preparation.
- Formulation of reagents for extracting from complex matrices including human, animal, agricultural, environmental samples.
- Integration into automated platforms
- Purification and enrichment of DNA, RNA and biomolecules

Oligonucleotide Synthesis and Purification

- Synthesis of DNA/RNA oligonucleotides
- Added functionalities with synthetic building blocks
- High yield and high purity
- Low and high-throughput synthesis process
- Rapid turnaround

- Probes, primers, molecular beacons, MGB & LNA
- Multiplex panels for target screening
- Molecular assays including qPCR, isothermal, NGS
- Point-of-care diagnostics
- Companion diagnostics for genotyping and SNPs
- Precision diagnostics for personalized medicine

Validation and in vitro Analysis Services

- Access to full suite of molecular and cellular biology assays for the validation and analysis of tests, reagents and buffers
- Target binding, purification and enrichment
- FTIR, TGA, and chemical analysis

- Workflow development (sample preparation and detection) of diagnostic or screening platform for pathogen, antimicrobial resistance genes, contaminants
- Assay validation for specificity, cross-reactivity, sensitivity assessment
- Reagents quality controls and lot QC validation