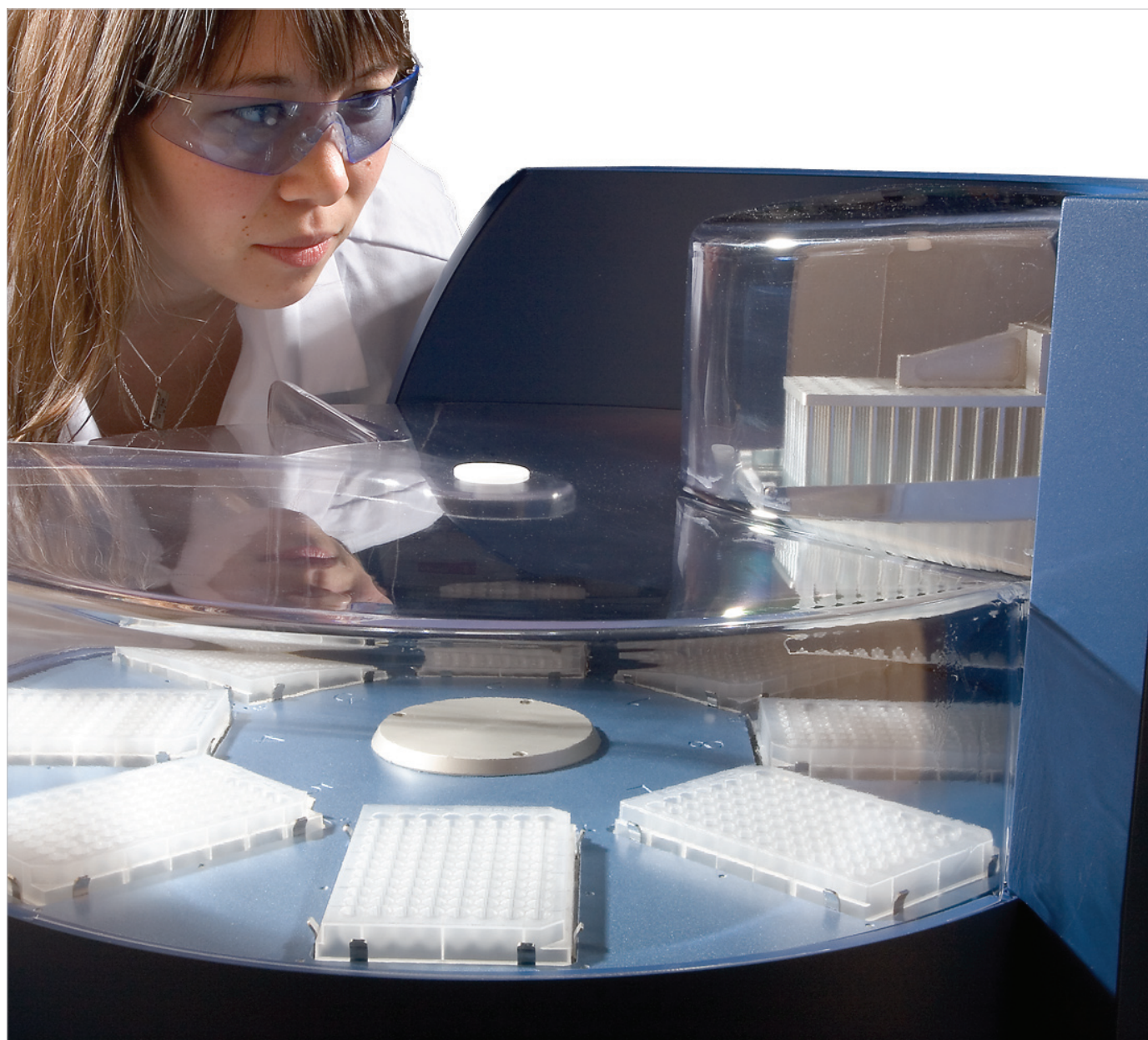


Automate and Accelerate Nucleic Acid Extraction

Superior sample preparation and cross contamination control



MagMAX™ Sample Preparation is an integrated system designed to simplify, standardize and accelerate preparation of samples derived from various sources for downstream molecular analysis. Consisting of MagMAX Nucleic Acid Isolation Kits and MagMAX Express magnetic particle processors, the system offers unparalleled ease of use, shorter time to results, and highest quality nucleic acid extraction.

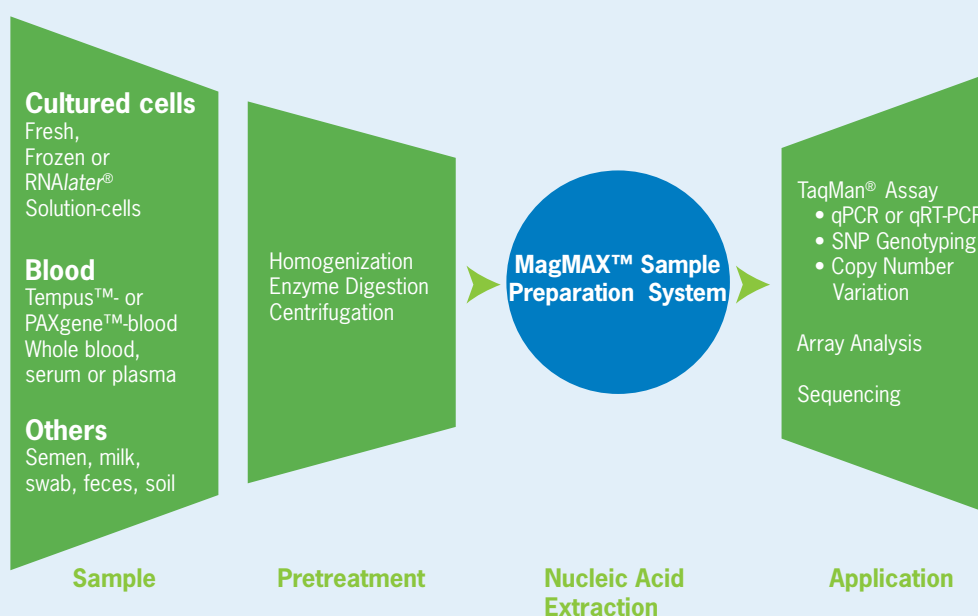


Figure 1. Workflow for nucleic acid isolation using the MagMAX™ Sample Preparation System.

Proven Superiority. Reliable Results.

Nucleic acid extraction from biological fluids and cell-free samples (serum, plasma, swabs, cell culture media, blood, semen, and milk) presents unique challenges including low concentrations of extractable nucleic acid, large volumes to be processed, and sample complexity. The isolation procedure must also be compatible with real-time PCR.

The MagMAX™ Sample Preparation System addresses all these issues, without using organic solvents or nucleic acid precipitation, eliminating the problems often encountered with filter-based nucleic acid isolation methods (clogging, large elution volumes, and inconsistent yields).

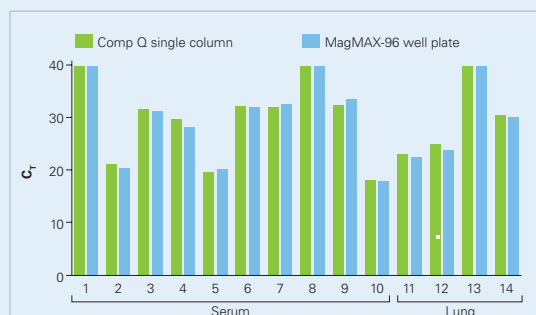
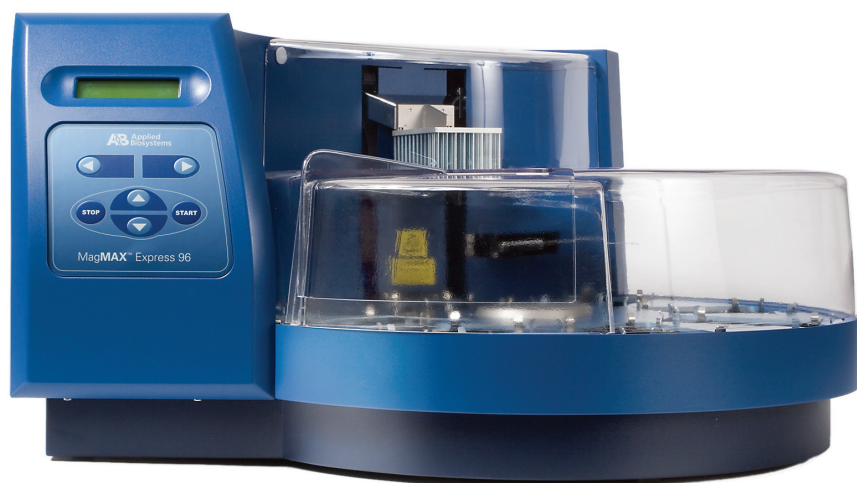


Figure 2. MagMAX™ Provides Highly Effective Pathogen Nucleic Acid Isolation From Diverse Sample Types. In this example, the nucleic acid extraction efficiency of swine associated pathogen (PRRS: Porcine Reproductive virus; SIV: Swine Influenza Virus; M Hyo: Microplasma Hypopneumoniae; TGEV: Transmissible Gastroenteritis virus) was compared using the MagMAX-96 Viral RNA Isolation Kit with 50 μ L sample and Company Q filter columns with 140 μ L sample. Even with less sample input, pathogen detection was as sensitive (equivalent C_t s) or more sensitive (lower C_t s) using nucleic acid isolated with MagMAX RNA.

MagMAX™ Sample Preparation System Components



Nucleic Acid Extraction Kits

Using magnetic beads that provide exceptional RNA binding, MagMAX™ Nucleic Extraction Kits deliver RNA of high yield and purity for highly sensitive and specific pathogen detection from diverse biological samples.

MagMAX Avian Influenza/Newcastle Disease (AI/ND) Viral RNA Isolation Kits

- Evaluated by the National Veterinary Services Laboratories (NVSL) for use with AI/ND viruses
- Entire procedure takes <30 minutes

MagMAX Total Nucleic Acid Isolation Kit

- Complete, ready-to-use reagents for RNA and DNA purification from tough-to-lyse bacteria (e.g. *Mycobacterium*)
- Sample homogenization and lysis utilizing bead beating and chemical lysis processes

MagMAX Blood RNA Isolation Kit

- Evaluated with human, bovine, porcine, and ovine whole blood

MagMAX Viral Nucleic Acid Isolation Kits

- Recover viral RNA and DNA from diverse sample types
- Recover as few as 10 copies of viral RNA from 100–400 μ L sample input

MagMAX Total RNA Isolation Kit

- Improved DNase treatment to minimize DNA contamination and preserve RNA integrity
- Enhanced protocol for RNA isolation from plant tissues

MagMAX Microarrays Total RNA Isolation Kit

- Improve gene expression studies with consistent results from experiment-to-experiment
- Combines TRI Reagent® Solution with superior magnetic bead-based technology

Magnetic Particle Processors

To automate the MagMAX Sample Preparation System, two magnetic particle processor configurations are available: the MagMAX Express for low throughput processing, and the MagMAX Express-96 for high throughput environments.

MagMAX Express

- Processing Volume: 20 – 200 μ L
- Capacity: up to 24 samples/run

MagMAX Express-96

- Processing Volume: 10-1000 μ L
- Capacity: 96 samples/run
- Optional deep-well configuration

For more information product or ordering information on the MagMAX System visit www.ambion.com and www.appliedbiosystems.com/animalhealth.

ORDERING INFORMATION

Description	P/N
Nucleic Acid Preparation Kits	
MagMAX™ 96 AI/ND Viral RNA Isolation Kit, 4 x 96 rxn	AM1835
MagMAX™ AI/ND Viral RNA Isolation Kit, 50 rxn	AM1929
MagMAX™ 96 Viral RNA Isolation Kit, 96 rxn	AM1836
MagMAX™ 96 Viral RNA Isolation Kit, 5 x 96 rxn	AMB1836-5
MagMAX™ Viral RNA Isolation Kit, 50 rxn	AM1939
MagMAX™ Total Nucleic Acid Isolation Kit	AM1840
MagMAX™ 96 Blood RNA Isolation Kit	AM1837
MagMAX™ 96 Microarrays Total RNA Isolation Kit	AM1839
MagMAX™ 96 Total RNA Isolation Kit	AM1830
Magnetic Particle Processors	
MagMAX™ Express	4387987
MagMAX™ Express-96 Standard, 100-240V	4387988
MagMAX™ Express-96 Deep Well, 100-240V	4387989

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Printed in the USA, 06/2011 Publication 128BR05-03



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