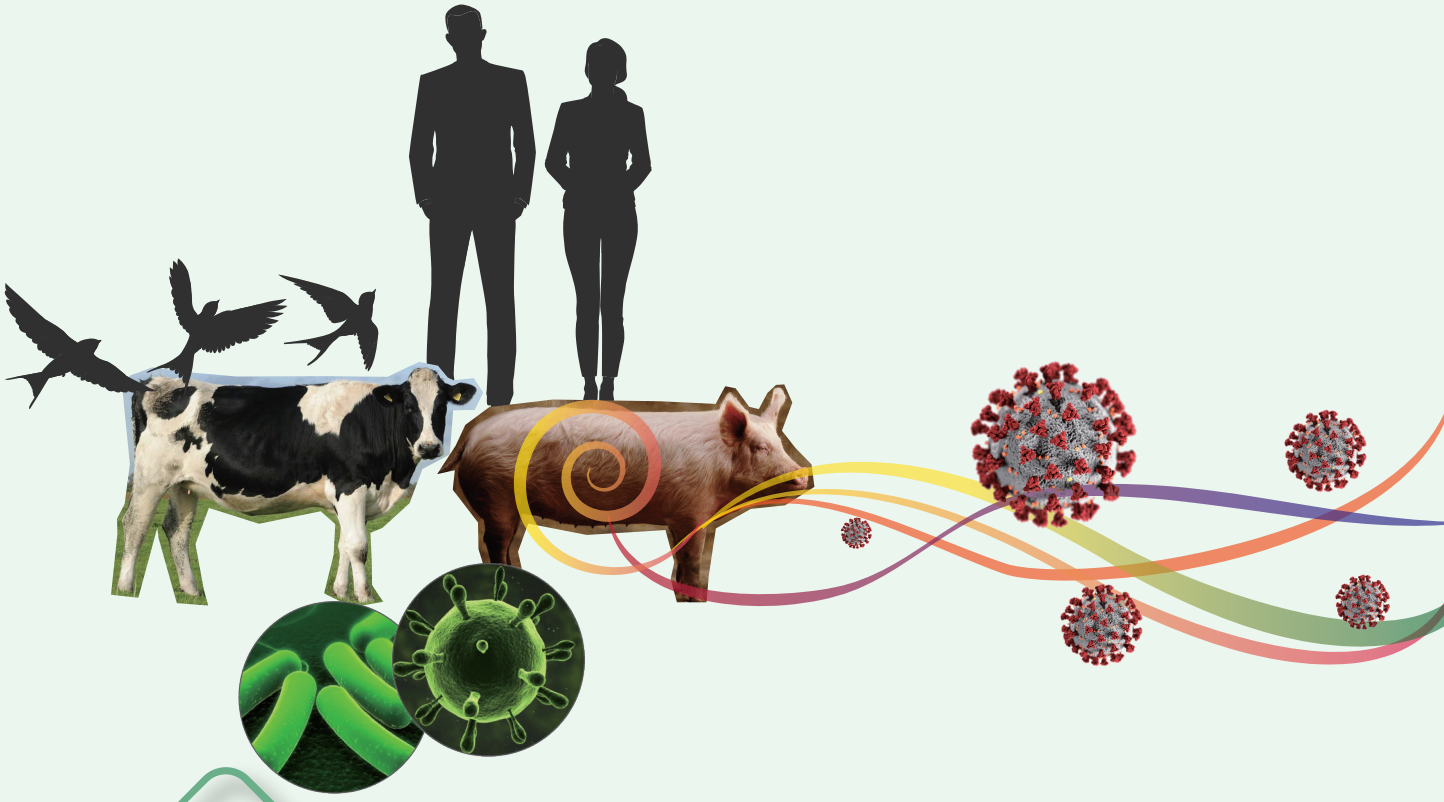


DNA/RNA extraction from various pathogen infected
by virus or bacteria such as blood, tissue, raw milk, dried blood spot etc.

Ribospin™ Pathogen TNA

GENEALL BIOTECHNOLOGY CO., LTD.

Ribospin™ Pathogen TNA

Isolates pathogen and total nucleic acid from a variety of sample types

The Ribospin™ Pathogen TNA kit simplifies the isolation of total nucleic acid, gram-positive bacterial DNA, viral DNA and viral RNA from a wide range of samples, including blood, tissue, stool and raw milk.

The Ribospin™ Pathogen TNA kit enables simultaneous purification of bacterial and viral nucleic acids in a single tube to enhance the convenience and versatility.

The newly designed lysis buffer system and spin-column type P allow for effective lysis of difficult samples and remove contaminants to yield pathogen nucleic acids that are ready for use in downstream applications such as real-time PCR and RT-PCR.

Benefits of Ribospin™ Pathogen TNA

- Co-purification of pathogen and total nucleic acid in a single tube by same protocol
- Suitable for difficult-to-lysis with enhanced buffer system
- Efficient removal of inhibitors and contaminants
- Purification of DNA and RNA with high sensitivity and specificity

Key features

Format : Mini spin columns

Target : Pathogen nucleic acid, total nucleic acid from the host

Sample source types : Cell, Whole blood, Body fluid, Saliva, Swab, Tissue, Stool, Raw milk, Dried blood spot

Preparation time : >30 minutes

Elution volume : 30 µl

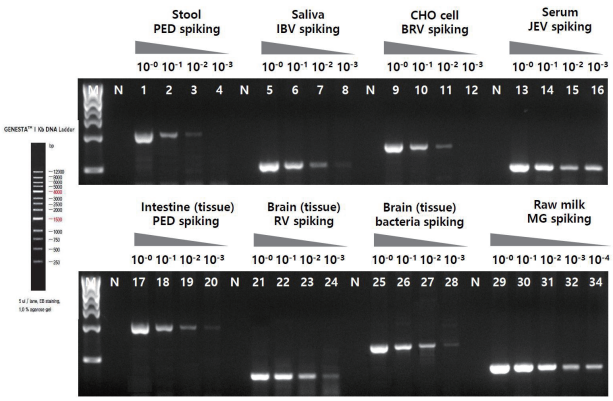
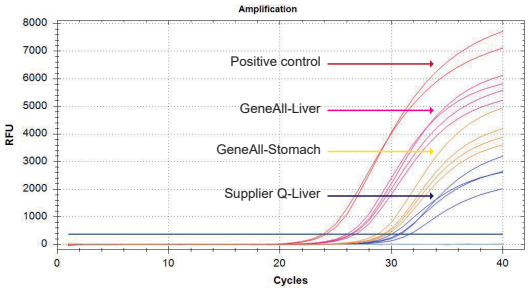
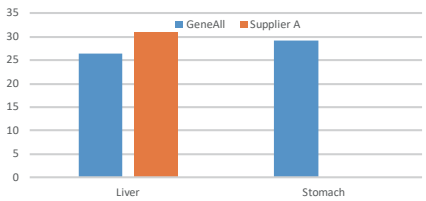


Figure 1. Successful isolation of virus RNA and bacterial DNA from various samples.
Stool, Saliva, CHO cell, Serum, tissue organism and raw milk samples were spiked with Porcine epidemic diarrhea, Infectious Bronchitis, Bovine rotavirus, Japanese encephalitis, Rabies virus, Mycoplasma genitalium each. Pathogen nucleic acid was purified using Ribospin™ Pathogen TNA kit and then serial dilution of 1:10 of elution was amplified using target-specific primers. Data from the PCR reaction shows high quality of pathogen extraction.





Sample#	Liver	Stomach
GeneAll	26.4	29.25
Supplier A	30.78	Not detected

Figure 2. Real-time PCR comparison
Rat liver and stomach tissues were spiked with 5 x 10^4 IU/ml single-stranded RNA (ssRNA) virus and the isolation protocol was performed using Ribospin™ Pathogen TNA kit and supplier A. Four repeat real-time RT-PCR was performed for each sample. Data shown is averages of fourfold reactions.

Ordering Information

Product Description	Preps	Cat. No.
Ribospin Pathogen TNA kit	10	341-110
	50	341-150
	250	341-152