

Food DNA Isolation Kit



For the isolation of DNA directly from food or from enriched microorganisms



- ✓ Isolate DNA from a wide range of food materials. (e.g. boiled, fluid, processed or raw food products)
- ✓ No hazardous chemicals required (e.g. phenol or chloroform)
- Effective lysis with Proteinase K and optional lysozyme treatment
- ✓ Fast (less than 15 minutes hands-on time) and convenient processing using a rapid spin-column format
- ✓ Wide compatibility with a variety of food products for GMO-DNA isolation
- ✓ Universal protocol for food related pathogen DNA isolation (Gram positive and Gram negative)

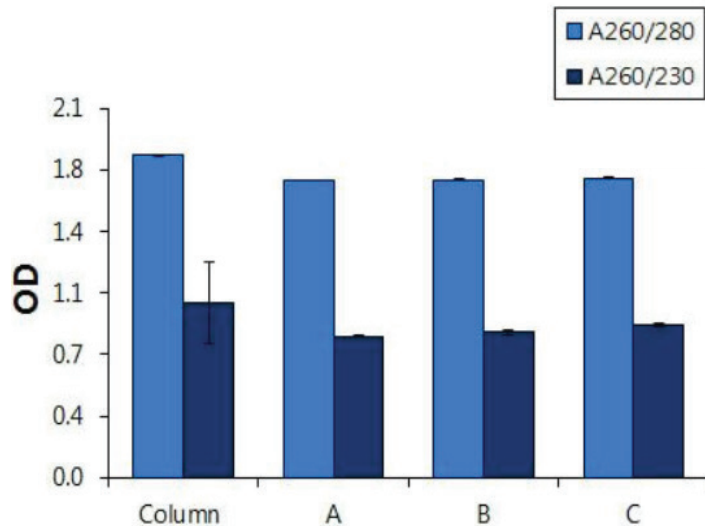
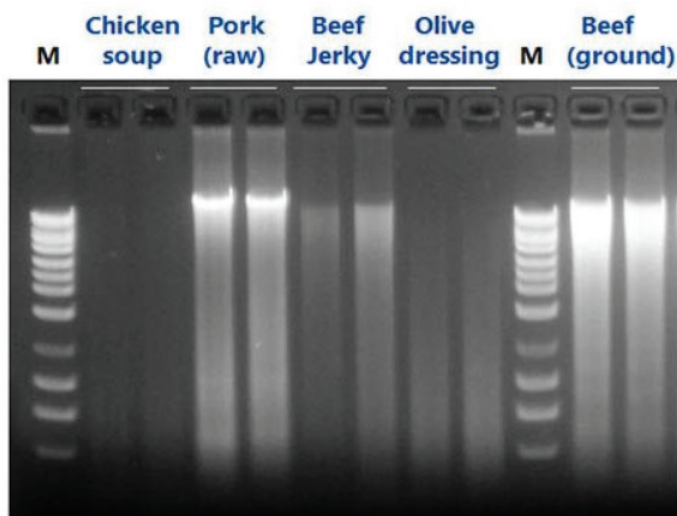


Figure 1. Isolate DNA from a Wide Range of Food Samples. Total genomic DNA was isolated from 200 mg of processed (chicken soup, beef jerky) or non-processed (raw pork, olive dressing, ground beef) food materials using Norgen's Food DNA Isolation kit. Following isolation, 10 μ L from each 100 μ L elution was loaded on 1% TAE agarose gel. Lane M: Norgen's HighRanger 1kb DNA Ladder.

Figure 2. High Purity of DNA Samples. DNA was isolated from 200 mg of processed (chicken soup, beef jerky) or non-processed (raw pork, olive dressing, ground beef) food materials using Norgen's Food DNA Isolation Kit. DNA purity was then determined using a NanoDrop. All the DNA isolated from the different food samples showed a high quality (260/280=1.9-2.1).

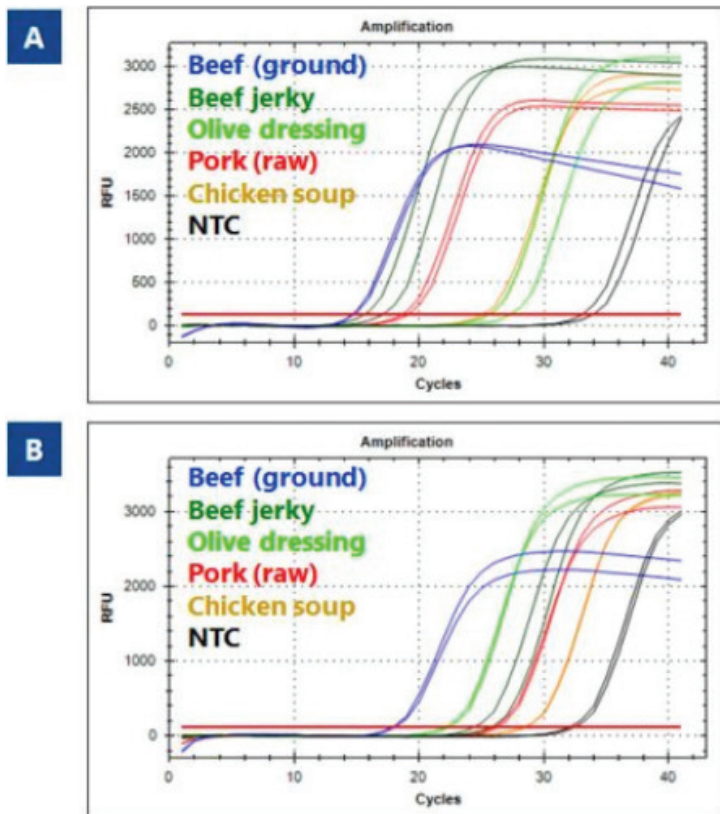
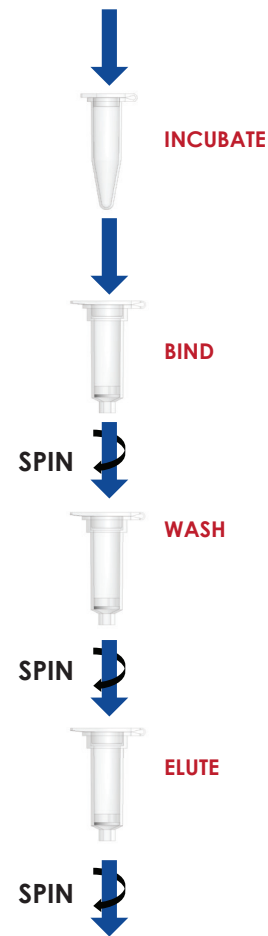


Figure 3. High Quality DNA free from PCR Inhibitors - Superior Quality to detect two house keeping genes (5S rDNA and 16S rDNA) representing GMO gene and food related pathogen detection. Total DNA was isolated from 200 mg samples of different food materials (processed and non-processed) using Norgen's Food DNA Isolation Kit. Next, 4 μ L of the elution was then used as the template in 20 μ L PCR reactions using universal 5s rDNA primers (A) and prokaryotic 16s rDNA primers (B) in real-time PCR (SYBR Green). Norgen's DNA was successfully amplified, indicating the high quality of the inhibitor-free DNA for GMO and pathogen detection from diversified food materials.

Prepare food sample



Purified Total Food DNA



About this kit

This kit provides a rapid spin column method for the isolation and purification of total DNA from a wide range of food samples originating from animals or plants. The kit is designed for identification of GMO-DNA or animal components in food and feed and can be used for a wide range of starting materials including raw or processed food, meat, liquids, sauces and dairy products including milk, cheese and yogurt.

This kit also provides a convenient method for the detection of food-related pathogens and will isolate such DNA (enriched or as is) including Gram-positive bacteria, Gram-negative bacteria, yeast and fungi which may contaminate food sources. A number of pathogens have been tested including *E. coli* O157:H7, *Staphylococcus*, *Listeria monocytogenes*, *Salmonella enterica* & *Campylobacter jejuni*. The purified DNA is of the highest integrity, and can be used in a number of downstream applications including PCR based detection, sequencing and genotyping.

v3.0

Ordering information

Description	Size	Cat. Number
Food DNA Isolation Kit	50 preps	54500

