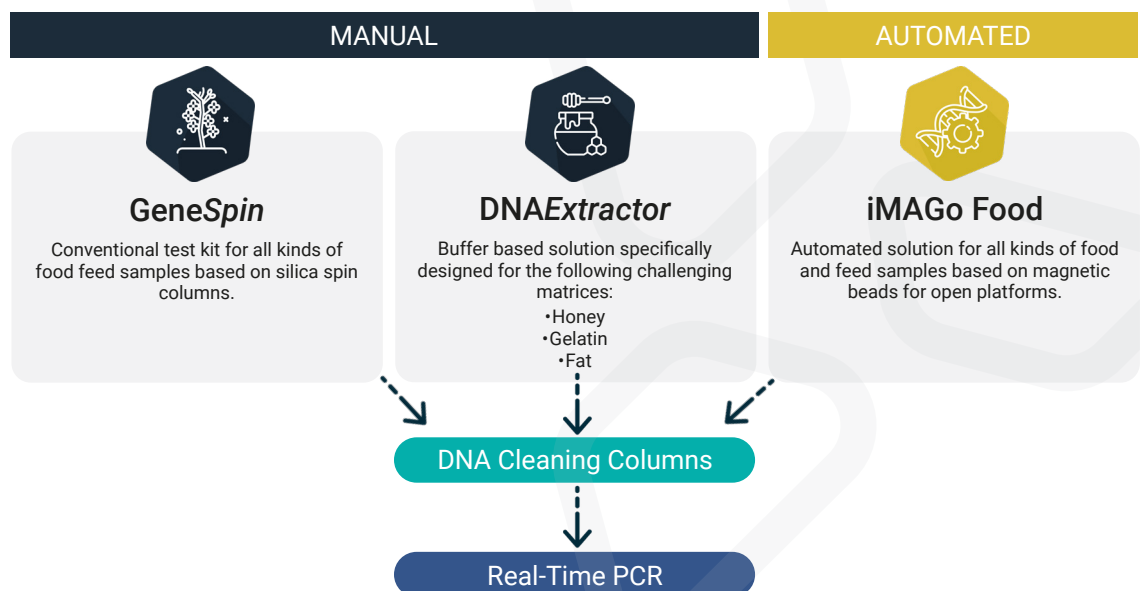# DNA Isolation
Reliable Solutions for Every Food & Feed Sample Type

The availability of high quality DNA is a pre-requisite for subsequent nucleic acid based analytical technologies, especially when identifying animal species or to detect the single GMO corn in 10.000 others. A high variability in food and feed sample matrix types such as low vs. high DNA rich samples, or raw vs. highly processed samples require solutions developed to meet those challenges.

Furthermore, depending on the needs of the laboratory, solutions for a smaller turnover vs. solutions for high throughput for all different types of matrices need to be taken into account.

Get the solution that fits your needs best and lay a secure foundation for further testing with all DNA-based applications.

MANUAL		AUTOMATED

Gene*Spin*
Conventional test kit for all kinds of food feed samples based on silica spin columns.

DNA*Extractor*
Buffer based solution specifically designed for the following challenging matrices:
- Honey
- Gelatin
- Fat

iMAGo Food
Automated solution for all kinds of food and feed samples based on magnetic beads for open platforms.

DNA Cleaning Columns

Real-Time PCR

GENE*Spin* (cat. no. 5224400605)

Designed for the isolation of genomic DNA from food and feed samples of plant and animal origin, thereby using silica-membrane spin columns for sample inputs from 5–200 mg.

- Recovery ranging from 0.1–10 µg of DNA*
- Isolation of high-quality DNA thanks to optimised DNA recovery conditions paired with low binding capacities for impurities
- Fast and effective manual purification based on silica membrane spin technology
- No automation platform equipment needed
- Based on solvent-free chemistry

DNA*Extractor Solutions*

The DNA*Extractor* kits provide buffer-based extraction solution specifically designed for difficult matrix types where conventional methods often fail.

DNA*Extractor* Gelatin (cat. no. 5224701001) Gelatin is a highly processed matrix containing rather low levels of DNA.

DNA*Extractor* Fat (cat. no. 5224700710) Overcoming the difficult chemical nature of oils, fats and emulsifiers is critical.

DNA*Extractor* Honey (cat. no. 5224700910) Upconcentration DNA containing pollen is key as well as to efficiently lyse these robust structures.

DNA Cleaning Columns (cat. no. 5224700310)

Independent of the applied isolation protocol, DNA isolates from difficult/challenging matrices might contain impurities interferring with downstream applications. Using the DNA Cleaning Columns remove such molecules from your DNA isolates, ensuring unimpaired further analyses.

- Easy to use – takes less than 4 min per run
- Reduces inhibition rates in your Real-Time PCR

iMAGo Food (cat. no. 5524421001)

Independent of the applied isolation protocol, DNA isolates from difficult/challenging matrices might contain impurities interferring with downstream applications. Using the DNA Cleaning Columns remove such molecules from your DNA isolates, ensuring unimpaired further analyses.

- Recovery up to 180 µg of DNA when using raw matrices such as corn kernels*
- For use on open platforms such as KingFisher Flex System and GSD Auto-Pure 96
- One workflow also for matrices difficult to lyse (iMAGo PREDigest, cat. no. HU0080001)
- Fully validated workflow with subsequent GMO Real-Time PCR systems
- Based on solvent-free chemistry

*DNA yield strongly depends on matrix type and grinding performance