

Halal Detection Solution



Preparation



Isolation



DNA
Quantification



Mixing
& Analysis



Detection



LIMS



Consumable
& General
Equipment



Mobile

1. Preparation



1 Precellys Evolution Homogenizer

The most advanced tissue homogenizer combining high efficiency and versatility for all sample preparation needs.

2 Cryolys Evolution

Prevents thermo-sensitive samples from heat degradation during homogenization process.

3 Precellys® 24 Touch Homogenizer

Intuitive tissue homogenizer to prepare any kind of biological sample. It can treat up to 24 samples at a time.

4 Minilys Personal Homogenizer

Compact and flexible tissue homogenizer to meet particular sample preparation needs for working with biological samples.

5 Precellys Lysing Kits

After optimized tissue lysis, the extraction of nucleic acids is perfected using the DNA- and RNA-free guarantee of Precellys lysing kits.

2. Isolation



1 NucleoMag DNA Food

Flexible magnetic bead based isolation of DNA from food and feed.

- DNA extraction from food and feed for e.g., species identification, GMO detection
- Get even low amounts of partially degraded DNA from complex matrices
- Extraction of DNA from contaminating bacteria (food safety)
- Kit chemistry allows full sample flexibility
- Processing: Manual or automated
- Sample material: <200 mg
- Fragment size: 300 bp-approx. 50 kbp
- Processing time: 40-120 min/96 preps (excl. lysis)*

2 NucleoSpin Food, Mini kit for DNA from food

NucleoSpin Food guarantees good recovery rates even for small genomic DNA fragments (< 1 kb) out of processed, complex food matrices (e.g., ketchup or spices), which generally have very low DNA contents as well as poor quality, degraded DNA.

- Complete removal of PCR inhibitors – get high quality DNA
- Even low amounts of partially degraded DNA can be purified from complex matrices
- Fast and easy procedure
- DNA from various sample materials – highest flexibility



MACHEREY-NAGEL

3. DNA Quantification

EzDrop 1000 Micro-Volume Spectrophotometer

EzDrop 1000 Micro-Volume UV/Vis Spectrophotometer accelerates your research efficiency. It can complete the measurement of a sample concentration speedily in 3 seconds. EzDrop 1000 provides dynamic full-spectrum 190-1000 nm detection, while the sample window is equipped with Nano hydrophobic coating, ensuring highly accurate results.



BLUE-RAY
BIOTECH

4. Mixing and Analysis

1 Mic qPCR Cycler

The Mic PCR machine uses a patented magnetic induction technology to heat your samples and fan forced air for cooling. This means fast quantitative real time PCR results through rapid heating and cooling, with 35 cycles possible in under 25 minutes.

The Mic qPCR cycler incorporates a unique spinning aluminium rotor which has unsurpassed temperature uniformity during both dynamic and static operations. This functionality allows it to achieve the highest level of quantification precision.



bms
bio molecular systems

2 Myra Liquid Handling System

The world's first liquid handling system that can see. Myra boasts state of the art algorithms and an integrated camera to ensure ultimate precision in your sampling. Save time with Myra's speed, accuracy and user intuitive software.



5. Detection



GENCERA

CERAPOR Kit Real-Time PCR (rt-PCR)

The CERAPOR kit is designed and validated to detect the presence of pork DNA in food samples using the real-time PCR method. The presence of pork DNA fragments will be amplified and detected as the fluorescence signal increases in the SYBR Green or FAM channel during the amplification cycle. This Real-Time PCR (rt-PCR) kit can detect 1 copy DNA/ μ L of Porcine DNA

Detection Capability of Porcine DNA (Minimal Porcine DNA Detection).

This Real-Time PCR (rt-PCR) kit can detect DNA at 1 copy DNA/ μ L.

5. LIMS

GenLIMS - Integrated Laboratory Information Management System

Data integration solution in the laboratory to improve performance, accuracy and time efficiency and support the implementation of **ISO 17025**.

Features:

- ✓ Human Resources Module
- ✓ Inventory Module
- ✓ Laboratory Module
- ✓ Instrument Integration
- ✓ Internal Audit Module



6. Consumable and General Equipment

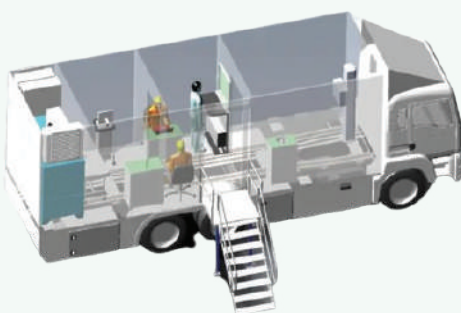


7. Mobile Lab

GenKubs - Certifiable Mobile Bio-Containment Lab

GenKubs is a portable bio-containment laboratory designed to support various testing and research activities in diverse environments. Built with flexibility in mind, it can be easily transported and installed in different locations, providing a controlled and secure space for scientific work.

- Easy to transport and install
- Highly customizable for diverse research applications
- Designed by local and international containment experts
- Made in Indonesia



GENKUBS