

FOOD SAFETY · RT-PCR

Food Safety RT-PCR Detection Kits

Fast, sensitive and reliable real-time PCR kits for the qualitative detection of foodborne pathogens, meat species, GMOs and more — in food, beverage, dairy and environmental samples.



Listeria spp



L. monocytogenes



Salmonella spp



E. coli



E. coli O157:H7



Campylobacter



Vibrio spp

WHY SAMPIBIO

Pathogen detection — fast, sensitive, simple

Real-time PCR kits engineered for routine food-safety laboratories: minimal hands-on time, built-in controls and dependable results.



< 60 min

PCR run time



2 steps

Minimal pipetting workflow



IPC

Internal positive control in every reaction



24 / 96

Flexible reaction formats

ONE WORKFLOW, MANY TARGETS

From a single, standardised protocol your laboratory can detect a broad range of pathogens and food-authenticity targets — using open, instrument-compatible real-time PCR chemistry validated for food and environmental matrices.

✓ Food

✓ Beverage

✓ Dairy

✓ Meat & poultry

✓ Environmental

✓ Animal feed

DETECTION MENU

A broad foodborne-pathogen menu

Qualitative real-time PCR detection of the pathogens that matter most for food-safety monitoring.



Listeria spp



Listeria monocytogenes



Salmonella spp



Salmonella Enteritidis / Typhimurium



E. coli



E. coli O157:H7



STEC (Big-6)



Campylobacter spp



Cronobacter (C. sakazakii)



Enterobacteriaceae



Vibrio spp



Staphylococcus aureus

WORKFLOW

From sample to result in three steps

A streamlined protocol with only two pipetting steps and minimal hands-on time.

01



Prepare & extract

Rapid direct-extraction from food, feed or environmental samples.

< 5 min

02



Set up PCR

Combine master mix and template — one transfer per reaction.

< 5 min

03



Amplify & read

Run on standard real-time PCR systems; results read automatically.

< 60 min



PORTFOLIO

A complete food-safety PCR portfolio

Detection, authenticity, GMO screening and sample preparation — under one SAMPIBIO identity.



Pathogen Detection

Qualitative RT-PCR kits for foodborne pathogens



Meat Authenticity

Species ID & Halal verification by multiplex qPCR



GMO Screening

35S, NOS & FMV screening with plant control



DNA Extraction

Fast, high-yield prep from complex food matrices



Custom Assays

Design-to-order detection for any target



Systems & Software

Open compatibility with standard PCR cyclers

PATHOGEN DETECTION

Real-time PCR detection kits

Qualitative detection across food, feed and environmental samples.

Target	Typical matrix
Listeria spp.	Food & environmental
Listeria monocytogenes	Food & environmental
Salmonella spp.	Food, feed, environmental
S. Enteritidis / Typhimurium	Eggs, poultry, primary prod.
E. coli O157:H7	Raw meat, produce
STEC (non-O157 + Big-6)	Beef, raw milk, produce
Campylobacter spp.	Food samples
Cronobacter spp.	Food & environmental
Enterobacteriaceae	Food & environmental
Vibrio spp.	Seafood

Time-to-result is enrichment-dependent and provided for guidance only. Confirm validated protocols and matrix scope before use.

MEAT AUTHENTICITY · HALAL

Species identification & Halal verification

Fast, sensitive multiplex qPCR for the detection of animal species in raw, cooked and processed products.



Pork (Halal)

Detection of porcine DNA



Pork + Horse

Porcine & equine multiplex



Pork + Horse + Beef

Porcine, equine & bovine multiplex

DESIGNED FOR CONFIDENCE

- Detection in as little as 1 hour
- Internal positive control flags inhibition
- Validated on raw, cooked & processed food
- High analytical sensitivity — down to 0.5 pg DNA
- All extraction & PCR reagents included



GMO SCREENING

Real-time PCR GMO detection

General screening for genetically modified organisms in food and feed, supporting EU labelling requirements.

Detecting the most frequently used genetic elements, our GMO screening kits give laboratories a reliable first-line method to flag the presence of GM material — with a built-in plant control to confirm extraction quality and rule out PCR inhibition.



35S promoter

Most common transgenic promoter element



NOS terminator

Widely used transgenic terminator



FMV promoter

Additional broad screening element



Endogenous plant control

Confirms DNA quality & detects inhibition



Primers and target sequences follow validated methods of the European Commission.

SAMPLE PREPARATION

DNA extraction for food matrices

Fast, easy isolation of high-quality DNA from processed and unprocessed food — the foundation of reliable PCR.



Fast & simple

Direct, rapid protocols with minimal hands-on time



High-quality DNA

Clean template for sensitive amplification



Broad matrix coverage

Works across diverse food & feed matrices



Inhibitor control

Pairs with IPC to flag problem samples

FEATURES & BENEFITS

Built for the routine food lab

Dependable chemistry and an open workflow that fits the way your laboratory already works.



Internal positive control

Every reaction flags inhibition and guards against false negatives.



Minimal hands-on time

As few as two pipetting steps from sample to PCR plate.



Open platform

Compatible with standard real-time PCR cyclers and FAM / ROX detection.



Validated methods

Chemistries aligned with recognised food-safety and EU reference methods.



Full traceability

Lot, product code and expiry on every kit, with QC per batch.



Scalable formats

24- and 96-reaction kits to match throughput.

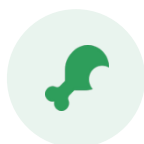
APPLICATIONS

Trusted across the food chain

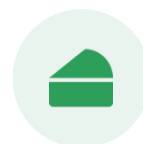
From primary production to finished product and the processing environment.



Food production



Meat & poultry



Dairy



Beverage



Eggs & egg products



Seafood



Water



Animal feed



Processing environment



Cannabis & botanicals

QUALITY & CONFIDENCE

Results you can stand behind

Built-in controls and rigorous quality assurance protect every result.

IN EVERY RUN

- Internal positive control (IPC) in each reaction
- No-template controls to detect contamination
- FAM target / ROX control dual-channel readout
- Recommended triplicate layout for critical samples

IN EVERY KIT

- Tested against predetermined specifications
- Lot-to-lot consistency by batch QC
- Unique lot, product code & expiry date
- Clear documentation & storage guidance



CONFIDENT INTERPRETATION

A positive target signal with a valid control confirms the analyte; a clean negative with a valid control confirms its absence — so your team can act on every result with confidence.

CUSTOM

Custom & on-demand assays

Need a target that isn't in the catalogue? We design, build and validate it for you.



Define the target

- Organism, gene or marker of interest
- Sample matrix & throughput needs
- Regulatory & reporting context



Design & build

- Primer / probe design & optimisation
- Singleplex or multiplex configuration
- Control strategy & format selection



Validate & deploy

- Analytical performance verification
- Documentation & onboarding
- Scale-up to routine production

START A CONVERSATION

Bring confident food safety to your lab.

Tell us your pathogen targets, sample matrices, throughput and platform — and the SAMPIBIO team will recommend the right real-time PCR kits or design a custom solution.

CONTACT



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