

Walk away solutions for PCR analysis

Accelerate your daily lab routine





Standardization and harmonization of methods

• Reduction of errors and variability



Improved quality and performance

- Better reproducibility and repeatability
- Reduced contamination risk



Flexible

- Animal & plant DNA
- Bacterial DNA from enrichments
- Virus RNA

More information:



https://r-b.io/rt-pcr

Real-time PCR workflow

Food & feed samples, enriched bacteria Sample preparation cultures, virus samples Semi-automated nucleic Only two DNA/RNA extraction kits acid preparation Three protocols: Animal & plant DNA Bacterial DNA Virus RNA/DNA Device for medium throughput: • Maelstrom™ 4800:16/32/48 samples/run Pre-installed programs Real-time PCR set-up Broad range of kits:

Allergen

GMO



Animal

Microbiology

species identification

Multiplex kits



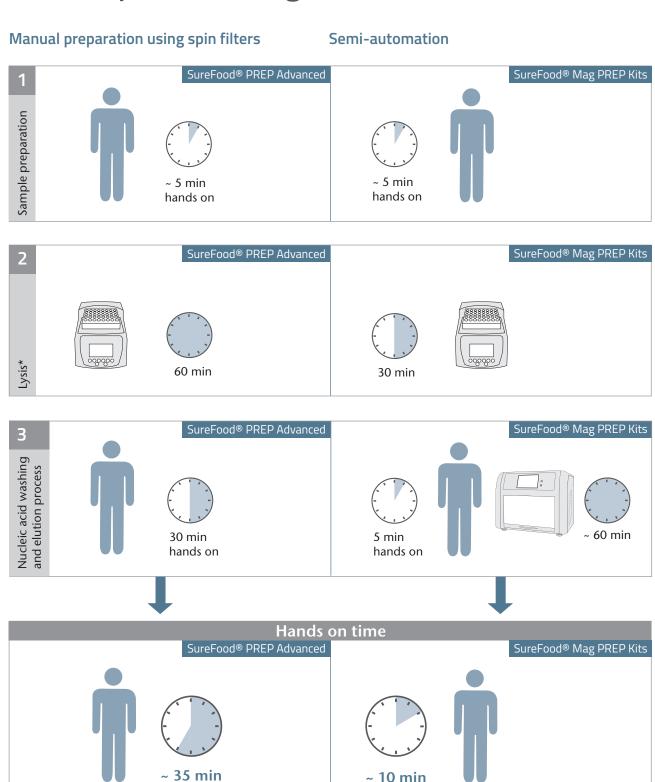
Real-time PCR run & data analysis



Pre-installed programs Up to 48 samples/run



Reduce your handling time



^{*} When using SureFood® Mag PREP Pathogen, lysis is carried out directly in the TANBead device and takes ~25 minutes.

~ 10 min

Semi-automated nucleic acid preparation

The instrument: The TANBead® MaeIstrom™ series offers a semi-automated, flexible and convenient nucleic acid extraction solution. The extraction technology based on magnetic beads is suitable for plant and animal DNA, bacterial DNA as well as viral DNA/RNA from raw and processed food and feed samples.



Flexible

Verified for many food matrices and the SureFood® & SureFast® qPCR kits



Operator convenience

Intuitive software interface & pre-installed protocols



Time saving

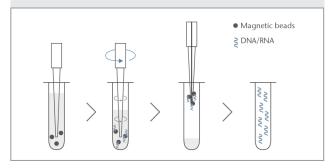
Pre-filled plates

Principle of nucleic acid extraction:

The nucleic acids adsorbed by the magnetic beads are transferred from well to well by magnetic rods for washing and elution.

Patented whirl stirring mixing technology:

- Spin tips stir magnetic beads at speeds up to 3000 rpm
- Effective prevention of aerosol cross contamination



TANBead MaeIstrom™ 4800 (Art. No. ZMAL48) – medium throughput



Specifications

• Capacity: Up to 48 samples per run

• **Weight**: 45 kg

• **Dimensions:** 58 x 43 x 47 cm

Processing

volume: 50 - 1500 μLDisplay: 7" touch screen

• UV lamp: Yes



The kits

SureFast® Mag PREP Food Kit (Art. No. F1060):

For DNA extraction of animal and plant DNA from food and feed as well as bacterial DNA from bacterial culture enrichments

SureFast® Mag PREP Pathogen Kit (Art. No. F1062):

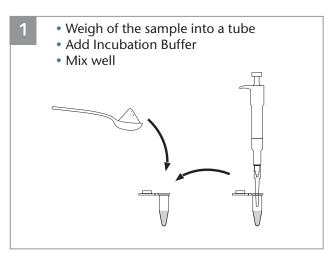
For RNA/DNA extraction of virus samples as well as bacterial DNA from bacterial culture enrichments

Pre-installed protocols:

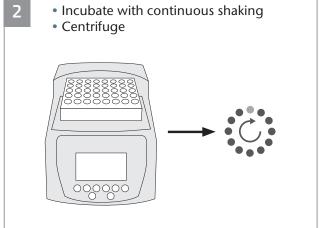
- Animal & plant DNA
- Bacterial DNA
- Virus RNA/DNA

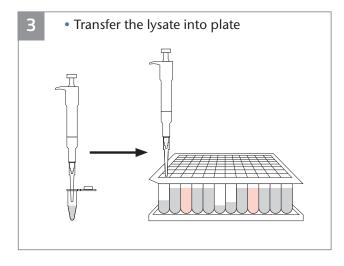
Pre-filled plates for 96 preparations:

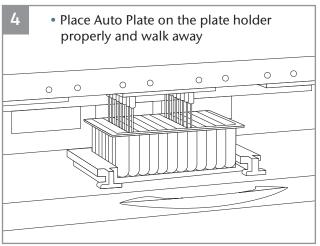
• 16 samples / plate











Multiplex real-time PCR instrument – RIDA®CYCLER

qPCR cycler

User-friendly real-time PCR device using a patented magnetic induction technology to heat your samples and fan forced air for cooling. Verfied for all SureFood® and SureFast® qPCR kits.



General				
Dimensions	13 x 15 x 15 cm (H x W x L)			
Weight	2.1 kg			
Optical				
Detectors	Photodiode per channel			
Excitation Sources	High power LED for each channel			
4 Channels	Green	Ex 465nm	Em 510nm	
	Yellow	Ex 540nm	Em 570nm	
	Orange	Ex 585nm	Em 618nm	
	Red	Ex 635nm	Em 675nm	
Performance				
Tube format	0.1 mL strips of four tubes and matching caps 48 samples per instrument			
Thermal performance	Temperature accuracy: Temperature uniformity:		± 0.25 °C ± 0.05 °C	
	Ramp rates Heating: 4 °C/ Cooling: 3 °C/			

Calibration

No calibration required — RIDA®CYCLER is a non-contact system. The rotor is not in contact with anything physical just the induction field.

Computer minimum requirements

- Windows® 7, 32-bit Operating System (English version)
- NET Framework 4.5 or higher
- Intel i5 processor, 2.4 GHz
- 4 GB of RAM
- 1 GB free hard drive capacity
- Pointer device
- USB Drive
- Adobe® Reader® must be installed to be able to view reports in PDF format
- Bluetooth®, if this is the preferred connection

Features:



Versatility

4 optical channels



User-friendliness

Easy software set-up with pre-loaded thermoprofiles



Accuracy

High temperature accuracy & first class temperature uniformity due to magentic induction



Size

Compact & portable qPCR instrument



Design

No extra centrifuge needed



Connectivity

Operate several instruments

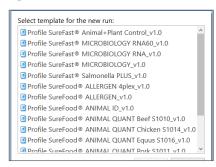


RIDA®CYCLER software

qPCR run

User-friendly software set up with all SureFast® and SureFood® assays pre-loaded. Start the qPCR run in only 4 steps:

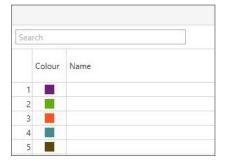
1 Select the template



2 Select the assay(s)



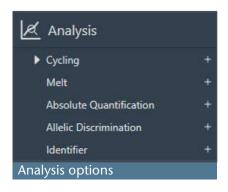
3 Enter samples names



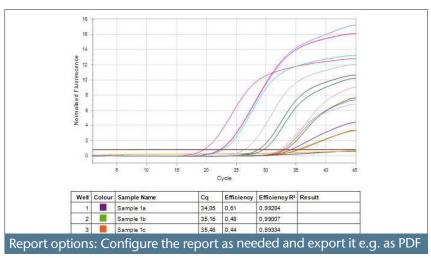
4 Start run



Analysis options



Clear result documentation



Walk away solutions for PCR analysis

Accellerate your daily lab routine

Changing to automation is easy

- Equipment is easily installed
- Pre-installed protocols
- Verified for SureFood® & SureFast® real-time PCR kits
- Technical support

Your way to automation

Product	Description	No. of tests/amount	Art. No.		
DNA Preparation					
SureFast® Mag PREP Food	For DNA extraction of animal and plant DNA from food and feed as well as bacterial DNA from bacterial culture enrichments	96 preparations (6 plates/box)	F1060		
SureFast® Mag PREP Pathogen	For DNA/RNA extraction of virus samples as well as bacterial DNA from bacterial culture enrichments	96 preparations (6 plates/box)	F1062		
Automation system					
TANBead Spin Tips	Box with spin tips for the TANBead Maelstrom™ 8 channel handler	1	ZMAL8-Tips		
TANBead Maelstrom [™] 4800	Automated nucleic acid extraction system for up to 48 samples/run	1 device	ZMAL48		
qPCR					
RIDA®CYCLER	qPCR thermocycler, incl. 1 box with reactions tubes	1	ZRCYCLER		
RIDA®CYCLER-MIC-Tubes	Box with 960 reaction tubes and caps	1	ZRC-MIC-TUBES		
RIDA®CYCLER TVS	Temperature verification system	1	ZRCYCLER-TVS		