



PRODUCTS

FOOD, FEED, BEVERAGES

Catalogue

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DNA-Extraction Kits

First-DNA all-tissue Kit



The First-DNA all-tissue Kit is *one single system* that makes DNA extraction possible from various substrates such as blood, urine, semen, cell culture, tissue embedded in paraffin, hair, bones, stains, plant and animal tissue, mouse tails, food, bacteria, yeast, fungi etc. without the use of toxic substances. High yields of quality DNA can be obtained, the mean purity of the isolated DNA, determined by the A260/A280 ratio, is 1.8-1.9. There is no loss of DNA by columns and the eluted DNA is well suited for PCR, sequencing, RFLP etc.

Art. No.: **D 0102000 (10 preparations, trial Kit)**
 D 0502000 (50 preparations)
 D 1002000 (100 preparations)
 D 5002000 (500 preparations)
 L1DNA050 (extra Lysis buffer 1 for 50 preparations)
 L1DNA100 (extra Lysis buffer 1 for 100 preparations)

DNA-Extraction Kits

Simplex[®] Easy DNA Kit



In 15 minutes DNA from bacteria and yeast

The Simplex Easy DNA Kit is an extremely fast and easy DNA-Extraction from bacteria and yeasts. It is also approved for mouse tails and epithelial swaps. DNA is well suited for PCR, sequencing and more.

DNA-Extraction in 5 steps

1. Centrifuge sample
2. Remove supernatant
3. Add Simplex[®] Easy reagent
4. Incubate sample at 95 °C
5. Centrifuge sample

Advantages

- DNA-extraction in one single vessel
- No contamination risk
- No toxic solutions
- DNA-cleaning is possible
- Universal applications
- Low material and instrument costs

**Art. No.: SE 0010 (10 preparations, trial Kit)
SE 0100 (100 preparations)**

DNA-Extraction Kits

Simplex[®] Easy Wine Kit



In 40 minutes DNA from bacteria and yeast

The Simplex[®] Easy Wine Kit is an extremely fast and easy method for isolation of DNA from bacteria and yeasts out of wine. It is particularly suitable for detection of wine spoilage microorganisms like e.g. *Dekkera bruxellensis*, *Oenococcus oeni* or lactobacilli.

DNA-Extraction in 6 steps:

1. Centrifuge sample
2. Purify sample by washing (removal of inhibitors)
3. Remove the washing solution after centrifugation
4. Add Simplex[®] Easy Wine reagent
5. Incubate sample at 95 °C
6. Centrifuge sample

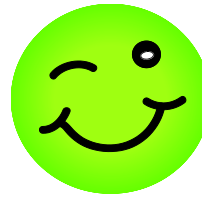
Advantages

- DNA-extraction in one single reaction vessel
- No inhibition by washing the sample
- No contamination risk
- High efficiency
- No loss of DNA
- Fast and easy handling
- Universal applications
- Low material and instrument costs

Art. No.: **SEW 0100 (100 preparations)**
 WS 0100 (100 preparations)

DNA-Extraction Kits

Simplex[®] Easy Spin Food DNA Kit



The Simplex[®] Easy Spin Food DNA Kit is a fast and optimal DNA-extraction method for food, feed, plant and animals. The use of spin columns and two cleaning steps guarantee a pure, clean and PCR-suitable DNA used for e.g. detection of GMO, allergenes, animal identity,....

DNA-Extraction in 7 steps:

1. Resuspend sample in lysis buffer and incubate 30 min. 65 °C
2. Centrifuge sample
3. Add binding buffer and transfer to spin column, spin 30 sec:
4. Remove inhibitors with washing buffer
5. Purify DNA with cleaning buffer
6. Spin dry 2 min.
7. Elute DNA with preheated Elution buffer

Advantages

- Very clean DNA
- Fast and easy handling
- Universal applications
- Long storage of DNA is possible

Art. No.: SEFS 0050 (50 preparations)
SEFS 0250 (250 preparations)

DNA-Extraction Kits

Simplex[®] Easy Spin Bacterial DNA Kit



The Simplex[®] Easy Spin Bacterial DNA Kit is a very fast and easy method for isolation of DNA from bacteria in food and feed after pre-enrichment. The use of spin columns without further cleaning steps results in sufficiently clean DNA suitable for further applications like PCR.

DNA-Extraction in 4 steps:

1. Centrifuge preenriched sample and remove media
2. Resuspend the pellet in lysis buffer and incubate 30 min. 95 °C
3. Add binding buffer and transfer to spin column, spin 30 sec
4. Elute DNA with preheated Elution buffer

Advantages

- Fast and easy DNA-extraction
- Cleaning by spin column
- No contamination risk
- Universal applications
- Long storage of DNA is possible

Art. No.: **SESB 0050 (50 preparations)**

DNA-Extraction Kits

Simplex[®] Easy Spin Legionella Kit



The Simplex[®] Easy Spin Legionella Kit is a very fast and easy method for isolation of DNA from *Legionella spp.* from drinking water, cooling- and waste water.

DNA-Extraction in 4 steps:

1. Centrifuge the water sample
2. Resuspend the pellet in lysis buffer and incubate 10 min. at 95°C
3. Add binding buffer and transfer to spin column, spin 30 sec.
4. Elute DNA with preheated Elution buffer

Advantages

- Suitable for all samples (drinking water, cooling- and wastewater)
- High quality *Legionella* DNA by using column technology
- The system provides all reagents necessary for extraction from 50 samples

Art. No.: **SESL 0050 (50 preparations)**

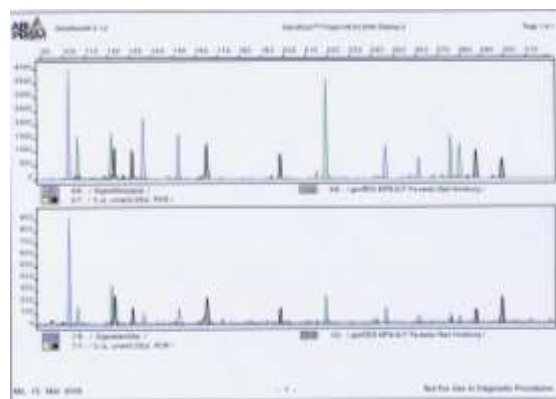
DNA-Extraction Kits

First-Magnetic Forensic Kit

DNA-Extraction from forensic material suitable for automation

The First-Magnetic Forensic Kit is developed for automatic genomic DNA-extraction from various forensic materials. DNA is well suited for STR, SNP, sequencing etc.

- swabs (buccal, mucosa, vagina, etc.)
- blood stains
- hair
- cigarette
- contact stains (e.g. from glass, sticky tape, etc.)



STR-analysis of cigarette paper (up) and cigarette filter (down) with genRES MPX-2LF (SERAC)

The method is based on biomagnetic separation of genomic/mitochondrial DNA: After preparing the lysate, the DNA is bound to magnetic beads. The rest of cell material and other contaminants is washed away. The isolated DNA is eluted in TE or H₂O. The regular volume is 50 µL.

Art. No.: **MFOR 0010 (10 preparations, trial Kit)**
 MFOR 0100 (100 preparations)
 MFOR 0500 (500 preparations)

DNA-Extraction Kits

First-Magnetic Food Kit



DNA-Extraction from food, feed and beverages

The First-Magnetic Food Kit is developed for genomic DNA-extraction from various materials and is especially approved for very complex and highly processed products. The DNA is well suited for PCR, sequencing, etc.

Applications:

- highly processed products: e.g. starch, lecithin, soy sauce, tomato puree
- beverage source materials: e.g. concentrates, fruit puree
- dairy products: e.g. milk and milk products
- feed: e.g. forage cereals, spent hops (treber), fattening feed

The method is based on biomagnetic separation of genomic DNA. After preparing the lysate, the DNA is bound to magnetic beads. The rest of cell material and other contaminants is washed away. The isolated DNA is eluted in TE or H₂O. The regular volume is 50 µL.

Art. No.: FMF 0010 (10 preparations, trial Kit)
FMF 0100 (100 preparations)

DNA-Extraction Kits

First-Magnetic Milk Kit



DNA-Extraction from milk and milk products

The First-Magnetic Milk Kit is developed for genomic DNA-Extraction especially from milk and milk products. The DNA is well suited for PCR, sequencing, etc.

Applications:

- milk, raw milk
- yoghurt
- quark
- cheese, cream cheese
- pudding

The method is based on biomagnetic separation of genomic DNA. After preparing the lysate, the DNA is bound to magnetic beads. The rest of cell material and other contaminants is washed away. The isolated DNA is eluted in TE or H₂O. The regular volume is 50 µL.

Art. No.: **FMM 0010 (10 preparations, trial Kit)**
FMM 0100 (100 preparations)

DNA-Extraction Kits

First-Beer Magnetic DNA Kit

microorganism-DNA Extraction from beverages

The First-Beer Magnetic DNA Kit is developed for bacterial and yeast DNA-Extraction especially from beverages.

Applications:

- beer
- beer mixing drinks
- juices
- wines

The method is based on biomagnetic separation of genomic DNA. After preparing the lysate, the DNA is bound to magnetic beads. The rest of cell material and other contaminants is washed away. The isolated DNA is eluted in TE or H₂O. The regular volume is 50 µL.

The DNA extracted with this Kit is suitable for all real-time PCR assays, e.g. First-Beer PCR Kits: P1 Hyb-Probe-Screening or First-Yeast PCR Kits.

Art. No.: **FBD 0010 (10 preparations, trial Kit)**
 FBD 0100 (100 preparations)

First-Salmonella DNA-Extraction buffer

First-Salmonella DNA-extraction buffer for rapid thermic cell lysis after pre-enrichment according to §64 LFGB 00.00.98.

Art. No.: **FSD 0100 (100 preparations)**

QuickGEN Sample Preparation Kits

The QuickGEN procedure allows a complete and fast analysis of beverage spoilers without preenrichment and time consuming sample preparation. The system is suited to the analysis in the own company lab as well as for the mobile application on site.

- Detection of beer spoilers in larger volume beer
- No sample preenrichment
- Fast two-step system available in two versions:

A. Membrane Filtration (FSE)

1. Filtrate beer sample up to 1 Liter
2. Add QuickGEN buffer to the filter
3. Lysis and PCR in one step

B. Centrifugation (CSE)

1. Centrifugate 30 mL beer sample
2. Add QuickGEN buffer
3. Lysis and PCR in one step

C. Syringe Filtration for dispensing equipment (SFSE)

1. Filtrate beer sample through a syringe (volume depends on beer type)
2. Add QuickGEN buffer to the filter
3. Lysis and PCR in one step

Special real-time PCR Kits detect and identify microorganisms directly out of beer (e.g. QPP1T, QTPBD). The detection limit is approximately 100 cfus.

Art. No.: FSE 0050 (50 preparations)

Art. No.: CSE 0050 (50 preparations)

Art. No.: SFSE 0050 (50 preparations)

Reference material

| | | | |
|-------------------------------|--|-----------|--------|
| All-Screen reference material | Reference material from soy and corn meal with p35S, Tnos, pat, bar, pFMV, CTP2-CP4EPSPS 500mg | RF-6x-mix | 500 mg |
|-------------------------------|--|-----------|--------|

PCR-Detection Kits

Colour Compensation Kits for Real-time PCR

| Product | Description | Art. No. | Rxn. |
|---|---|---------------|------|
| LC 2.0 Colour Compensation (LightCycler® 2.0) | Colour Compensation for FAM/HEX labelled TaqMan™ Duplex systems | CC FH 0005 | 5 |
| LC 480 Colour Compensation TaqMan™ (LightCycler® 480) | Colour Compensation for TaqMan™ labelled systems | CC LC480 0005 | 5 |

genControl®-GMO-Kits

All PCR-Kits are available for different real-time PCR machines on request

Qualitative Real-time PCR , if not indicated (FAM)

| Product | Description | Art. No. | Rxn. |
|------------------------------|--|------------------------|------|
| First-Plant | Plant in general, single copy, incl. internal Inhibition-Control | PPLANT 0050 | 50 |
| First-Plant | Plant in general, single copy, incl. internal Inhibition-Control | PPLANT 0100 | 100 |
| CaMV | Cauliflower Mosaik Virus | RT-CaMV-25 | 25 |
| CaMV | Cauliflower Mosaik Virus | RT-CaMV-50 | 50 |
| Duplex Virus | Duplex Cauliflower Mosaik Virus and Figwort Mosaik Virus (FAM/HEX) | RT-Duplex-Virus-25 | 25 |
| Duplex Virus | Duplex Cauliflower Mosaik Virus and Figwort Mosaik Virus (FAM/HEX) | RT-Duplex-Virus-50 | 50 |
| p35S/T-nos Duplex- Screening | CaMvp35S/T-nos -duplex PCR (FAM/HEX) | RTO-duplex-screen-50 | 50 |
| p35S/T-nos Duplex- Screening | CaMvp35S/T-nos -duplex PCR (FAM/HEX) | RTO-duplex-screen-100 | 100 |
| pat/bar Duplex- Screening | pat/bar -duplex PCR(FAM/HEX) | RTO-pat/bar duplex-50 | 50 |
| pat/bar Duplex- Screening | pat/bar -duplex PCR (FAM/HEX) | RTO-pat/bar duplex-100 | 100 |
| pFMV Screening | P34S-FMV-PCR | RTO-pFMV-50 | 50 |
| pFMV Screening | P34S-FMV-PCR | RTO-pFMV-100 | 100 |
| EPSPS Screening | CTP2-CP4-EPSPS -PCR | RTO-EPSPS-50 | 50 |
| EPSPS Screening | CTP2-CP4-EPSPS -PCR | RTO-EPSPS-100 | 100 |

| | | | |
|---|--|---------------------|-----|
| bar Screening | Bar -PCR | RTO-bar-50 | 50 |
| bar Screening | Bar -PCR | RTO-bar-100 | 100 |
| P-NOS-nptII Screening | P-NOS-nptII -PCR | RTO-pnos-nptII-50 | 50 |
| P-NOS-nptII Screening | P-NOS-nptII -PCR | RTO-pnos-nptII-100 | 100 |
| RT-triplex I p35S/T-nos/EPSPS | p35S/T-nos/CTP2-CP4EPSPS triplex PCR (FAM/HEX/CY5) | RT-Triplex I -50 | 50 |
| RT-triplex I p35S/T-nos/EPSPS | p35S/T-nos/CTP2-CP4EPSPS triplex PCR (FAM/HEX/CY5) | RT-Triplex I -100 | 100 |
| RT-triplex II p35S/T-nos/pFMV | p35S/T-nos/pFMV triplex PCR (FAM/HEX/CY5) | RT-Triplex II -50 | 50 |
| RT-triplex II p35S/T-nos/pFMV | p35S/T-nos/pFMV triplex PCR (FAM/HEX/CY5) | RT-Triplex II -100 | 100 |
| RT-triplex III p35S/T-nos/EPSPS & internal Control | p35S/T-nos/ CTP2-CP4EPSPS triplex PCR plus IC (FAM/HEX/ROX/CY5) | RT-Triplex III -50 | 50 |
| RT-triplex III p35S/T-nos/EPSPS & internal Control | p35S/T-nos/ CTP2-CP4EPSPS triplex PCR plus IC (FAM/HEX/ROX/CY5) | RT-Triplex III -100 | 100 |
| RT-triplex IV p35S/T-nos/pFMV & internal Control | p35S/T-nos/pFMV triplex PCR plus IC (FAM/HEX/ROX/CY5) | RT-Triplex IV -50 | 50 |
| RT-triplex IV p35S/T-nos/pFMV & internal Control | p35S/T-nos/pFMV triplex PCR plus IC (FAM/HEX/ROX/CY5) | RT-Triplex IV -100 | 100 |
| RR-Soya | GTS40-3-2 (RoundupReady™)-soya | RT-RR-25 | 25 |
| RR-Soya | GTS40-3-2 (RoundupReady™)-soya | RT-RR-50 | 50 |
| RR2-Soya | MON89788 (RoundupReady2™)-soya | RT-RR2-25 | 25 |
| RR2-Soya | MON89788 (Roundup Ready2™)-soya | RT-RR2-50 | 50 |
| A2704-12-Soya | A2704-12 (LibertyLink™)-soya | RT-A2704-Soya-25 | 25 |
| A2704-12-Soya | A2704-12 (LibertyLink™)-soya | RT-A2704-Soya-50 | 50 |
| A5547-127-Soya | A5547-127 (LibertyLink™)-soya | RT-A5547-Soya-25 | 25 |
| A5547-127-Soya | A5547-127 (LibertyLink™)-soya | RT-A5547-Soya-50 | 50 |
| Triplex-Soya I A2704/A5547/DP356043 all with p35S positive | Triplex PCR A2704-12 / A5547-127 / DP356043-5 (FAM/HEX/CY5) | RT-Trip-soyl-25 | 25 |
| Triplex-Soya I A2704/A5547/DP356043 | Triplex PCR A2704-12 / A5547-127 / DP356043-5 (FAM/HEX/CY5) | RT-Trip-soyl-50 | 50 |
| Triplex-Soya II DP305423/CV127/MON87701 All without screening markers | Triplex PCR DP305423-1 /BPS-CV127-9 / MON87701 (FAM/HEX/CY5) | RT-Trip-soyII-25 | 25 |
| Triplex-Soya II DP305423/CV127/MON87701 | Triplex PCR DP305423-1 /BPS-CV127-9 / MON87701 (FAM/HEX/CY5) | RT-Trip-soyII-50 | 50 |
| EH92-527-1-Potato | EH92-527-1 (Amflora™)-potato | RT-Amflora-25 | 25 |
| EH92-527-1-Potato | EH92-527-1 (Amflora™)-potato | RT-Amflora-50 | 50 |
| RT73-Canola | RT73 (RoundupReady™)-canola | RT-RT73-25 | 25 |
| RT73-Canola | RT73 (RoundupReady™)-canola | RT-RT73-50 | 50 |

| | | | |
|---------------------------------|--|--------------------|----|
| Triplex-Canola I Ms8/T45/Rf3 | Triplex PCR Ms8 / T45 / Rf3 (FAM/HEX/CY5) | RT-Trip-canola1-25 | 25 |
| Triplex-Canola I Ms8/T45/Rf3 | Triplex PCR Ms8 / T45 / Rf3 (FAM/HEX/CY5) | RT-Trip-canola1-50 | 50 |
| MON810-Maize | MON810 (YieldGuard™)-maize | RT-Mon810-25 | 25 |
| MON810-Maize | MON810 (YieldGuard™)-maize | RT-Mon810-50 | 50 |
| Bt176-Maize | Bt 176 (Maximizer™)-maize | RT-Bt176-25 | 25 |
| Bt176-Maize | Bt 176 (Maximizer™)-maize | RT-Bt176-50 | 50 |
| Bt11-Maize | Bt 11-maize | RT-Bt11-25 | 25 |
| Bt11-Maize | Bt 11-maize | RT-Bt11-50 | 50 |
| T25-Maize | T25-maize | RT-T25-25 | 25 |
| T25-Maize | T25-maize | RT-T25-50 | 50 |
| MON88017-Maize | MON88017 (Rootworm™)-maize | RT-MON88017-25 | 25 |
| MON88017-Maize | MON88017 (Rootworm™)-maize | RT-MON88017-50 | 50 |
| GA21-Maize | GA21 (RoundupReady™)-maize | RT-GA21-25 | 25 |
| GA21-Maize | GA21 (RoundupReady™)-maize | RT-GA21-50 | 50 |
| TC1507-Maize | TC1507 (Herculex™)-maize | RT-TC1507-25 | 25 |
| TC1507-Maize | TC1507 (Herculex™)-maize | RT-TC1507-50 | 50 |
| NK603-Maize | NK603 (RoundupReady™)-maize | RT-NK603-25 | 25 |
| NK603-Maize | NK603 (RoundupReady™)-maize | RT-NK603-50 | 50 |
| MIR604-Maize | MIR604-maize | RT-MIR604-25 | 25 |
| MIR604-Maize | MIR604-maize | RT-MIR604-50 | 50 |
| MIR162-Maize | MIR162-maize | RT-MIR162-25 | 25 |
| MIR162-Maize | MIR162-maize | RT-MIR162-50 | 50 |
| MON863-Maize | MON863-maize | RT-MON863-25 | 25 |
| MON863-Maize | MON863-maize | RT-MON863-50 | 50 |
| E3272-Maize | E3272-Maize (Event 3272 maize) | RT-E3272-25 | 25 |
| E3272-Maize | E3272-Maize (Event 3272 maize) | RT-E3272-50 | 50 |
| DAS59122-Maize | DAS59122-7- maize | RT-DAS59122-25 | 25 |
| DAS59122-Maize | DAS59122-7- maize | RT-DAS59122-50 | 50 |
| CBH351-Maize | CBH351-Maize (StarLink) | RT-CBH351-25 | 25 |
| CBH351-Maize | CBH351-Maize (StarLink) | RT-CBH351-50 | 50 |

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|----------|---|--------------|----|
| GMO-Soy | RR-, RR2-, A2704-12-, A5547-127-soya and soya-reference (5 x 25 rxn) | RT-GMSOY-25 | 25 |
| GMO-Corn | MON810-, T25-, Bt11-, Bt176-, MON88017-, GA21-, TC1507-maize and maize-reference (8 x 25 rxn) | RT-GMCORN-25 | 25 |

PCR-Detection Kits

genControl[®]-GMO Kits

All PCR Kits are available for different real-time PCR machines on request

Real-time PCR , quantitative (FAM)

| Product | Description | Art. No. | Rxn. |
|--------------------|---|-----------------|------|
| p35S/ Soya Quant | CaMVp35S Quantification in Soya | Qp35S-Soya-50 | 50 |
| p35S/ Soya Quant | CaMVp35S Quantification in Soya | Qp35S-Soya-100 | 100 |
| p35S/ Maize Quant | CaMVp35S Quantification in Maize | Qp35S-Maize-50 | 50 |
| p35S/ Maize Quant | CaMVp35S Quantification in Maize | Qp35S-Maize-100 | 100 |
| RR-Soya Quant | GTS40-3-2 (RoundupReady™) Soya Quantification in Soya | QRR-50 | 50 |
| RR-Soya Quant | GTS40-3-2 (RoundupReady™) Soya Quantification in Soya | QRR-100 | 100 |
| RR2-Soya Quant | MON89788 (RoundupReady2™) Soya Quantification in Soy | QRR2-50 | 50 |
| RR2-Soya Quant | MON89788 (RoundupReady2™) Soya Quantification in Soy | QRR2-100 | 100 |
| MON810-Maize Quant | MON810-Maize Quantification in Maize | QMON810-50 | 50 |
| MON810-Maize Quant | MON810-Maize Quantification in Maize | QMON810-100 | 100 |
| Bt176-Maize Quant | Bt176-Maize Quantification in Maize | QBt176-50 | 50 |
| Bt176-Maize Quant | Bt176-Maize Quantification in Maize | QBt176-100 | 100 |
| Bt11-Maize Quant | Bt11-Maize Quantification in Maize | QBt11-50 | 50 |
| Bt11-Maize Quant | Bt11-Maize Quantification in Maize | QBt11-100 | 100 |
| T25-Maize Quant | T25-Maize Quantification in Maize | QT25-50 | 50 |
| T25-Maize Quant | T25-Maize Quantification in Maize | QT25-100 | 100 |

PCR-Detection Kits

Microorganisms

All PCR Kits are available for different real-time PCR machines on request

Bacteria and yeast Screening with differentiation

| Product | Description | Art. No. | Rxn. |
|--|--|---|--------------|
| First-Beer Differentiation PCR Kit | Multiplex detection and identification of beer spoilage microorganisms | TPBD 0096 LC480 TPBD 0096 | 96 |
| QuickGEN First-Beer Differentiation PCR Kit | Multiplex detection and identification of beer spoilage microorganisms in combination with FSE 0050 or CSE 0050 | QTPBD 0096 LC480 QTPBD 0096 | 96 |
| P1 Hyb Probe Screening LC 2.0 (FRET) | Multiplex PCR detection of beer-spoiling bacteria with yeast/without yeast (LC640, 610, 670, 705) | PP1H 0050 LC 2.0/ PP1HoH 0050 LC 2.0 | 50 |
| P1 TaqMan Screening FAM, 610/ROX, HEX, 660/CY5 Spartan (FAM, ROX) | MultiplexTaqMan-PCR detection of beer-spoiling bacteria and yeast | PP1T 0050/0100 V 2.0 PP1T 0050 SP V 2.0 | 50/100 50 |
| P1 TaqMan Screening without yeast FAM, 610/ROX, HEX Spartan (FAM, ROX) | MultiplexTaqMan-PCR detection of beer-spoiling bacteria without yeast | PP1ToH 0050 V 2.0 PP1ToH 0050 SP V 2.0 | 50 |
| P1 TaqMan Screening without yeast FAM, 610/ROX, HEX Spartan (FAM, ROX) | MultiplexTaqMan-PCR detection of beer-spoiling bacteria without yeast | PP1ToH 0050 V 2.0 PP1ToH 0050 SP V 2.0 | 50 |
| QuickGEN PP1T Screening | Multiplex TaqMan-PCR detection of beer-spoiling bacteria and yeast in combination with FSE 0050 or CSE 0050 | QPP1T 0050/0100 V 2.0 QPP1T 0050 SP V 2.0 | 50/100 50 |
| QuickGEN PP1T OH Screening | Multiplex TaqMan-PCR detection of beer-spoiling bacteria in combination with FSE 0050 or CSE 0050 | QPP1T OH 0050 V 2.0 QPP1T OH 0050 SP V 2.0 | 50 |
| PPA1 TaqMan Screening Spartan (FAM, ROX) | MultiplexTaqMan-PCR detection of beer-spoiling bacteria, yeast and acetic acid bacteria | PPA1T 0050 SP V 2.0 | 50 |
| Lactobacilli/Pediococci FAM, HEX Spartan (FAM, ROX) | Detection of Lactobacilli and Pediococci | TLP 0050 TLP 0050 SP | 50 |
| First-PCR yeast and bacteria differentiation | Multiplex TaqMan-PCR for differentiation of bacteria and yeast | TPYB 0096 LC480 TPYB 0096 | 96 |
| First-Wine PCR Screening | Detection of Lactobacilli, Pediococci, Oenococcus oeni, Acetic acid bacteria, Yeast universal | TPWS 0050 | 50 |

Bacteria, qualitative (FAM/HEX) with Inhibition-Control

| Product | Description | Art. No. | Rxn. |
|--|--|----------------------|------|
| Alicyclobacillus spp. | TaqMan™-Detection | TPAB 0050 | 50 |
| Alicyclobacillus multiplex (FAM, HEX, CY5, ROX) | TaqMan™-Detection and Differentiation of <i>A. spp.</i> , <i>A. acidoterrestris</i> , <i>A. acidocaldarius</i> | TPABM 0050 R | 50 |
| Acetic acid bacteria | TaqMan™-Detection | TPA 0050 | 50 |
| Biogenic amine producing bacteria | TaqMan™-Detection | BAM 0050 | 50 |
| Lactobacillus amylolyticus/ reuteri | TaqMan™-Differentiation | TPLAR 0050 | 50 |
| Lactobacillus brevis, L.brevisimilis | TaqMan™-Detection | TPLB 0050 | 50 |
| Lactobacillus brevis/ lindneri / casei, paracasei | TaqMan™-Differentiation (FAM, HEX, Bodipy) | TLBCL 0048 ABI | 48 |
| Lactobacillus buchneri, parabuchneri | TaqMan™-Detection | TPLBU 0050 | 50 |
| Lactobacillus casei, paracasei | TaqMan™--Detection | TPLCP 0050 | 50 |
| Lactobacillus casei, paracasei, rhamnosus, zeae | TaqMan™-Detection | TPLCR 0050 | 50 |
| Lactobacillus collinoides/brevis | FRET-Detection with Differentiation (LC 640) | HPLBC 0050 | 50 |
| Lactobacillus collinoides/brevis/lindneri | FRET-Detection with Differentiation (LC 640, 705) | HPLBCL 0050 | 50 |
| Lactobacillus collinoides, paracollinoides | TaqMan™-Detection | TPLC 0050 | 50 |
| Lactobacillus coryniformis | TaqMan™-Detection | TPLCO 0050 | 50 |
| Lactobacillus lindneri | TaqMan™-Detection | TPLL 0050 | 50 |
| Lactobacillus perolens | TaqMan™-Detection | TPLPER 0050 | 50 |
| Lactobacillus plantarum, parapl., pentosus | TaqMan™-Detection | TPLP 0050 | 50 |
| Lactobacillus rossiae | TaqMan™-Detection | TPLR 0050 | 50 |
| Megasphaera cerevisiae | TaqMan™-Detection | TPM 0050 | 50 |
| Oenococcus oeni | TaqMan™-Detection | TPOe 0050 | 50 |
| Pectinatus cerevisiiphilus | TaqMan™-Detection | TPPC 0050 | 50 |
| Pectinatus frisingensis | TaqMan™-Detection | TPPF 0050 | 50 |
| Pectinatus spp. | FRET-Detection TaqMan™-Detection | HPP 0050 TPP 0050 | 50 |
| Pectinatus spp. / Megasphaera spp. | FRET-Detection with Differentiation (LC610, 705) | HPPM 0050 | 50 |
| Pectinatus spp. / Megasphaera spp. | TaqMan™- Differentiation | TPPM 0050 | 50 |
| Pediococcus damnosus | TaqMan™-Detection | TPPD 0050 | 50 |
| Selenomonas lactificex | FRET-Detection | HPSEL 0050 | 50 |
| Zymomonas mobilis | FRET-Detection | HPZYM 0050 | 50 |

Pathogene Bacteria, qualitative with Inhibition-Control

| Product | Description | Art. No. | Rxn. |
|---|--|---------------|------|
| First-Campylobacter jejuni with internal Control | TaqMan™-Detection (FAM, HEX) | CJE 0050 | 50 |
| First-Campylobacter jejuni Plus Kit: Incl. DNA-extraction Kit | TaqMan™-Detection (FAM, HEX) | SECJE 0200 | 200 |
| Campylobacter jejuni Complete Kit: ready to use PCR, incl. DNA-extraction Kit | TaqMan™-Detection (FAM, HEX) | SECJEC 0200 | 200 |
| Campylobacter diff. PCR (jejuni, lari and coli differentiated) with internal Control) | TaqMan™- Differentiation (FAM, JOE, ROX, CY5) | CAMPD 0050 | 50 |
| Campylobacter diff. Complete: ready to use PCR, incl. DNA-extraction Kit | TaqMan™- Differentiation (FAM, JOE, ROX, CY5) | SECAMPDC 0050 | 200 |
| Campylobacter PCR (jejuni, lari and coli/ FAM) with internal Control (JOE) | TaqMan™-Detection (FAM, JOE) | CAMP 0050 | 50 |
| Campylobacter Plus Kit, incl. DNA-extraction Kit | TaqMan™-Detection (FAM, JOE) | SECAMP 0200 | 200 |
| Campylobacter Complete Kit ready to use PCR, incl. DNA-extraction Kit | TaqMan™-Detection (FAM, JOE) | SECAMPC 0200 | 200 |
| First-Enterobacteriaceae PCR | TaqMan™-Detection (FAM, HEX) | ENT 0050 | 50 |
| Salmonella enterica PCR with internal Control | TaqMan™-Detection (FAM, HEX) | PHS 0050 | 50 |
| Salmonella Plus Kit, incl. DNA-extraction Kit | TaqMan™-Detection (FAM, HEX) | FSDPHS 0200 | 200 |
| Salmonella Complete Kit ready to use, incl. DNA-extraction Kit | TaqMan™-Detection (FAM, HEX) | FSDPHSC 0200 | 200 |
| First-Legionella Multiplex PCR Kit | Real-time PCR-Kit for detection and identification of <i>Legionella spp.</i> and <i>Legionella pneumophila</i> (FAM, HEX, CY5) | TPLEGM 0050 | 50 |
| Listeria spp. and Listeria monocytogenes multiplex PCR with internal Control | TaqMan™-Differentiation (FAM, JOE, CY5) | LIST 0050 | 50 |
| Listeria spp. Plus Kit, Listeria spp. + L. monocyt. incl. DNA-extraction Kit | TaqMan™-Differentiation (FAM, JOE, CY5) | SELIST 0200 | 200 |
| Listeria Complete Kit, Listeria spp. + L. monocyt. ready to use PCR, incl. DNA-extraction Kit | TaqMan™-Differentiation (FAM, JOE, CY5) | SELISTC 0200 | 200 |
| Listeria monocytogenes with internal Control | TaqMan™-Detection (FAM, HEX) | LMONO 0050 | 50 |
| Listeria monocytogenes Plus Kit, incl. DNA-extraction Kit | TaqMan™-Detection (FAM, HEX) | SELMONO 0200 | 200 |
| Listeria monocytogenes Complete Kit, ready to use, incl. DNA-extraction Kit | TaqMan™-Detection (FAM, HEX) | SELMONOC 0200 | 200 |

PCR-Detection Kits

Microorganisms

All PCR-Kits are available for different real-time PCR machines on request

Yeast Screening with differentiation:

| Product | Description | Art. No. | Rxn. |
|---|--|------------------------------|------|
| Hyb Probe Screening LC 2.0 | Multiplex FRET-PCR Detection and Differentiation of <i>Saccharomyces</i> spp., <i>Dekkera</i> spp., <i>Pichia anomala</i> for LC 2.0 (LC640, 610, 705) | PYHYB 0050 LC 2.0 | 50 |
| Hyb Probe Screening LC 480 | Multiplex FRET-PCR Detection and Differentiation of <i>Saccharomyces</i> spp., <i>Dekkera</i> spp., <i>Pichia anomala</i> for LC 480 (LC640, 610, 705) | PYHYB 0050 LC 480 | 50 |
| Real-time PCR-Kit for detection of wild yeast | Multiplex TaqMan-PCR for detection of wild yeast | TPWY 0096 TPWY 0096 LC480 | 96 |

Yeast, qualitative (FAM) with Inhibition-Control (HEX/ROX)

| Product | Description | Art. No. | Rxn. |
|---|---|------------|------|
| <i>Candida</i> spp. | FRET-Detection | HPYC 0050 | 50 |
| <i>Dekkera</i> spp. | FRET-Detection (LC640, 705) | HPYD 0050 | 50 |
| <i>Dekkera anomala</i> | TaqMan™-Detection | TPYDA 0050 | 50 |
| <i>Dekkera bruxellensis</i> | TaqMan™-Detection, quantitative | TPYDB 0050 | 50 |
| <i>Pichia anomala</i> | TaqMan™-Detection | TPYPA 0050 | 50 |
| <i>Pichia membranaefaciens</i> | TaqMan™-Detection | TPYPM 0050 | 50 |
| <i>Saccharomyces diastaticus</i> | TaqMan™-Detection | TPYSD 0050 | 50 |
| <i>Saccharomyces exiguus</i> | FRET-Detection (LC640, 705) | HPYSX 0050 | 50 |
| <i>Saccharomyces pastorianus/bayanus</i> | FRET- Detection with Differentiation (LC640, 705) | HPYPB 0050 | 50 |
| Top-fermented yeast | TaqMan™-Detection | TPYOG 0050 | 50 |
| Bottom-fermented yeast | TaqMan™-Detection | TPYUG 0050 | 50 |
| <i>Saccharomyces diastaticus</i> / Top-fermented yeast | TaqMan™- Differentiation (FAM, ROX/HEX) | TSDOG 0050 | 50 |
| <i>Saccharomyces diastaticus</i> / Bottom-fermented yeast | TaqMan™-Differentiation (FAM, ROX/HEX) | TSDUG 0050 | 50 |

PCR-detection Kits

Animal species

All PCR Kits are available for different Real-time PCR machines on request

Real-time PCR, qualitative with internal Control (FAM/HEX)

| Product | Description | Art. No. | Rxn. |
|-----------------------------|--|------------|------|
| First-Animal Tetra I | Tetraplex pork and beef and chicken and turkey | ANITI 0050 | 50 |
| First-Cattle | Cattle | PHCA 0050 | 50 |
| First-Chicken | Chicken | PHC 0050 | 50 |
| First-Donkey | Donkey | PHDO 0050 | 50 |
| First-Duck | Duck | PHD 0050 | 50 |
| First-Goat | Goat | PHG 0050 | 50 |
| First-Horse | Horse | PHH 0050 | 50 |
| First-Meat | Mammalia and Poultry | PHM 0050 | 50 |
| First-Pig | Pig | PHP 0050 | 50 |
| First-Ruminant | Ruminant animals according to EU | PHRU 0050 | 50 |
| First-Sheep | Sheep | PHSP 0050 | 50 |
| First-Turkey | Turkey | PHT 0050 | 50 |
| First-duplex Donkey/Horse | Duplex donkey and horse | PHDOH 0050 | 50 |
| First-duplex Cattle/Pig | Duplex beef and pork | PHCAP 0050 | 50 |
| First-duplex Turkey/Chicken | Duplex chicken and turkey | PHTC 0050 | 50 |

Quantification is possible by combination of First-Meat as reference system with any other single specific animal-detection Kit (except ruminant and multiplex Kits)

Allergens

Real-time PCR, qualitative with internal Control (FAM/HEX)

| Product | Description | Art. No. | Rxn. |
|----------------------|---|-----------|------|
| First-Almond | Almond | PALM 0050 | 50 |
| First-Cashew | Cashew | PCAS 0050 | 50 |
| First-Celery | Celery | PCEL 0050 | 50 |
| First-Hazelnut | Hazelnut | PHAZ 0050 | 50 |
| First-Lupine | Lupine | PLUP 0050 | 50 |
| First-Duplex Mustard | Mustard white, brown/ black (FAM/HEX/CY5) | PMUS 0050 | 50 |
| First-Peanut | Peanut | PPEA 0050 | 50 |
| First-Soya | Soybean | PSOY 0050 | 50 |
| First-Sesame | Sesame | PSES 0050 | 50 |

Plant species

All PCR-Kits are available for different Real-time PCR machines on request

Real-time PCR, qualitative with internal Control (FAM/HEX)

| Product | Description | Art. No. | Rxn. |
|--------------|------------------------------------|-------------|------|
| First-Canola | Canola | PCAN 0050 | 50 |
| First-Corn | Corn | PCOR 0050 | 50 |
| First-Cotton | Cotton | PCOT 0050 | 50 |
| First-Flax | Flax | PFLAX 0050 | 50 |
| First-Papaya | Papaya | PPAP 0050 | 50 |
| First-Potato | Potato | PPOT 0050 | 50 |
| First-Rice | Rice | PRIC 0050 | 50 |
| First-Wheat | Wheat | PWHE 0050 | 50 |
| First-Plant | Plant in general, single copy gene | PPLANT 0050 | 50 |
| First-Plant | Plant in general, single copy gene | PPLANT 0100 | 100 |

Equipment

Acrylic-Pipette-Rack



Ergonomic pipette rack for 4 pipettes.
Suitable for commercial pipettes from 10 – 1000 μL .

Art. No.: **PIP4**