



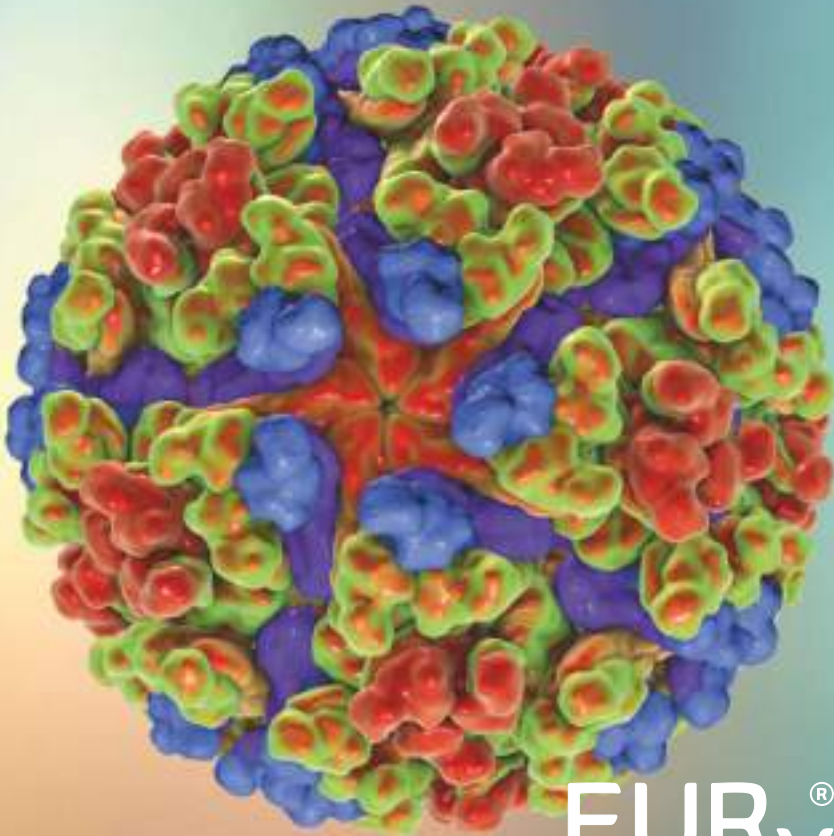
# Catálogo **Biología Molecular** 2021



**akralab**

one point, all solutions.

# smART series



EUR<sup>®</sup>  
MOLECULAR  
BIOLOGY  
PRODUCTS

## smART Reverse Transcriptase

|          |             |
|----------|-------------|
| E1376-01 | 10 000 u    |
| E1376-02 | 4x 10 000 u |

smART Reverse Transcriptase is an engineered viral reverse transcriptase with reduced RNase H activity, increased thermostability and processivity. smART Reverse Transcriptase provides a very robust and highly specific cDNA synthesis from a wide variety of RNA samples in a wide range of temperatures (50-65°C).

## smART First Strand cDNA Synthesis kit

|          |             |
|----------|-------------|
| E0804-01 | 2 000 u     |
| E0804-02 | 10 000 u    |
| E0804-03 | 4x 10 000 u |

smART First Strand cDNA Synthesis Kit is designed for convenient cDNA synthesis. Product is based on smART Reverse Transcriptase engineered to provide the highest performance. Kit provides a very reliable and consistent cDNA synthesis with any RNA samples in a wide range of temperatures (50-65°C). cDNA can be used directly in PCR and qPCR reactions with a variety of EURx thermostable DNA polymerases and master mixes.

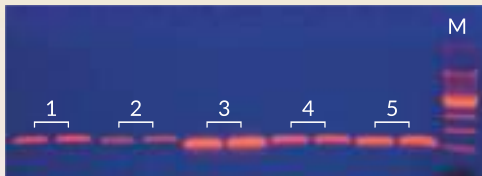
## smART RT-PCR kit

|          |               |
|----------|---------------|
| E0805-01 | 25 reactions  |
| E0805-02 | 100 reactions |

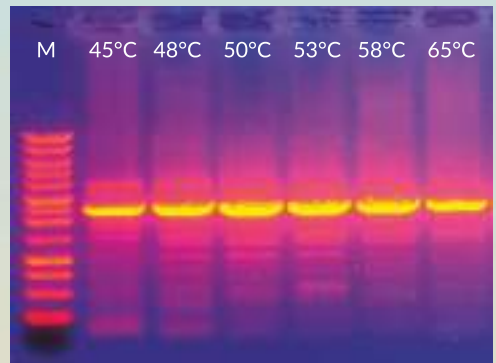
## smART RT-qPCR kit

|          |               |
|----------|---------------|
| E0806-01 | 25 reactions  |
| E0806-02 | 100 reactions |

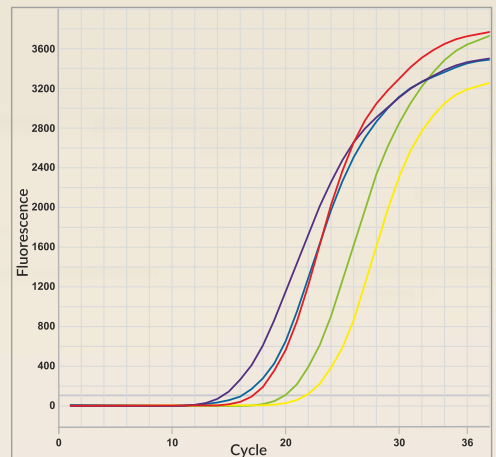
smART RT-PCR Kit and smART RT-qPCR Kit are complete systems for first and second strand synthesis in a two-step reaction. Kits provide all necessary components optimized for best performance in standard PCR and qPCR.



**Fig.2** RT-PCR reaction targeting five different genes. 8 ng of total RNA isolated from Human blood with GeneMATRIX HUMAN BLOOD RNA Purification Kit (E3596) was used to synthesize total cDNA with oligo dT<sub>(20)</sub> and smART RT-PCR kit. 2 µl of cDNA was used in PCR reaction (25 µl reaction volume). 1. Arginase I, 149 bp; 2. Beta-tubulin, 131 bp; 3. CD48 receptor, 103 bp; 4. Beta-actin, 112 bp; 5. GAPDH, 110 bp; M - Perfect 100 bp DNA Ladder (E3134).

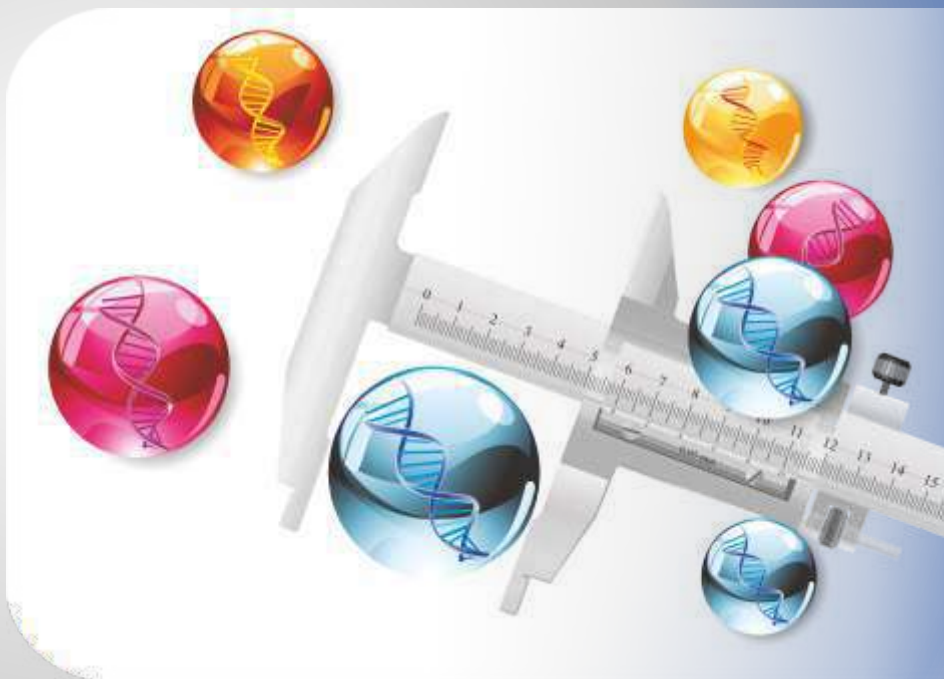


**Fig.1** RT-PCR targeting *S.scrofa* Glycogen Phosphorylase in a wide range of temperatures. 0.1 µg of total RNA from *S.scrofa* liver isolated with GeneMATRIX UNIVERSAL RNA Purification Kit (E3598) was used to synthesize cDNA using oligo dT<sub>(20)</sub> and smART Reverse Transcriptase (20 µl reaction volume). 2 µl of cDNA reaction was used in a second strand synthesis with OptiTaQ DNA Polymerase (E2600). M - Perfect Plus 1 kb DNA Ladder (E3131).



**Fig.3** RT-qPCR reaction targeting five different genes. 8 ng of total RNA isolated from Human blood with GeneMATRIX HUMAN BLOOD RNA Purification Kit (E3596) was used to synthesize total cDNA with oligo dT<sub>(20)</sub> and smART RT-qPCR kit. 2 µl of cDNA was used in qPCR reaction (25 µl reaction volume). Yellow line - Arginase I, 149 bp, ct=21,8; green line - Beta-tubulin, 131 bp, ct=19,6; red line - CD48 receptor, 103 bp, ct=17,3; violet line - Beta-actin, 112 bp, ct=14,6; blue line - GAPDH, 110 bp, ct=16,2.

# Perfect™ Ladders



*“to measure  
is to know”*

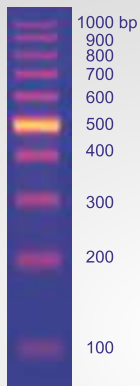
**EURx<sup>®</sup>**  
Molecular Biology Products



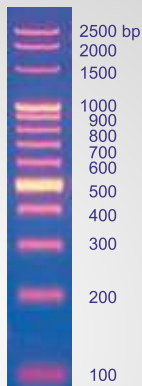
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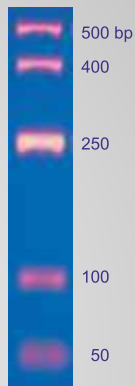
**100-1000 bp DNA Ladder**  
E3141



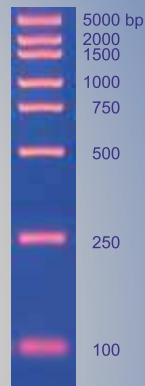
**100 bp DNA Ladder**  
E3134



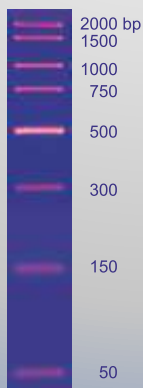
**50-500 bp DNA Ladder**  
E3145



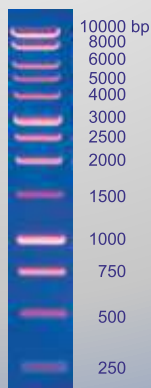
**MW Quantitative Ladder**  
E3161



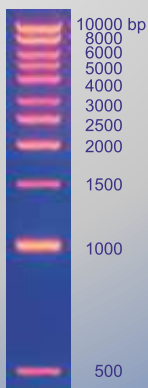
**2 kb DNA Ladder**  
E3140



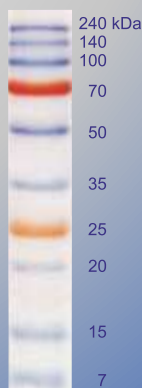
**Plus 1 kb DNA Ladder**  
E3131



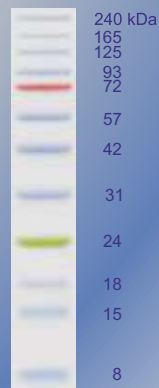
**1 kb DNA Ladder**  
E3130



**Color Protein Ladder**  
E3215



**Perfect™ Tricolor Protein Ladder**  
E3210



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Molecular Biology Products

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# FAST-CYCLING PCR

Save time with EURx fast-cycling polymerases!  
Extra equipment not needed!



experiments with quality

**EUR<sub>x</sub>**<sup>®</sup>  
MOLECULAR  
BIOLOGY  
PRODUCTS

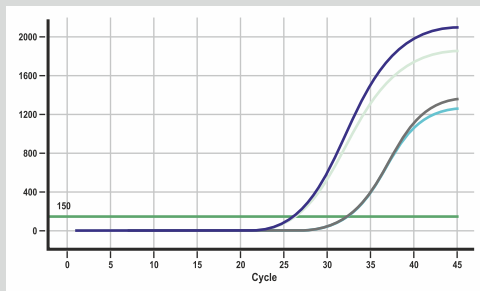
*Fast polymerases shorten PCR cycling time app. 40-50% without affecting the yield, performance and all parameters of PCR and real-time PCR.*

*EURx fast-cycling PCR is achieved by:*

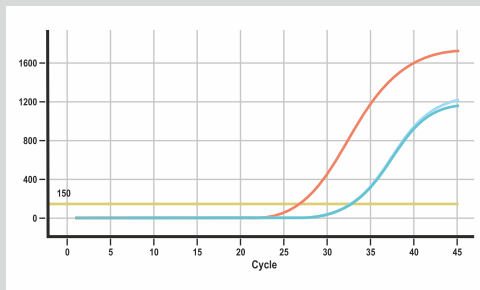
- special composition of a polymerase buffer (NXT Taq PCR Kit, Fast SG qPCR Master Mix, Fast Probe qPCR Master Mix). The polymerase is based on "hot start" Perpetual Taq DNA Polymerase.
- protein genetic engineering (Hybrid DNA Polymerase). Hybrid DNA Polymerase exhibits the 3'-5' proofreading activity and is based on Pyrococcus sp. DNA polymerase.



Lane 1: EURx Perfect 1kb DNA Ladder(E3130).  
Lanes 2,3: PCR amplification reactions using NXT Taq PCR Kit.  
Lanes 4,5: PCR amplification reactions using Perpetual Taq PCR Master Mix (2x).



Fast Probe qPCR



Probe qPCR

## Comparison of NXT Taq PCR Kit (E2530) and Perpetual Taq Master Mix (2x) (E2740).

An amplicon of the human CCR5 gene (1.1 kb) was amplified with NXT Taq PCR Kit and Perpetual Taq Master Mix (2x) using fast-cycling and plain-cycling PCR respectively:

### Fast-cycling:

95°C 5 min

96°C 5 s

60°C 5 s

68°C 35 s

31 cycles

72°C 1 min

\*Total time: 57 min

### Plain-cycling:

95°C 5 min

94°C 20 s

60°C 30 s

72°C 1 min 10 s

31 cycles

72°C 7 min

\*Total time: 1h 51 min

## Comparison of EURx Probe qPCR Master Mix (2x) (E0420) and Fast Probe qPCR Master Mix (2x) (E0422).

Probe-based real-time PCR was carried out using primers and a FAM-labeled probe specific for TUBB (beta-tubulin). Reactions were run in duplicate using human leukocyte cDNA (10 ng and 0.2 ng). The value of CT of equivalent reactions were very similar (difference in range of 0.5). PCR efficiency was app. 90% in both cases.

### Fast-cycling:

37°C 2 min

95°C 3 min

95°C 10 s

60°C 30 s

45 cycles

\*Total time: 1 h 10 min

### Plain-cycling:

50°C 2 min

95°C 10 min

94°C 15 s

60°C 1 min

45 cycles

\*Total time: 1h 50 min

\*Will vary depending on the thermal cycler used.

## EURx FAST-CYCLING PCR PRODUCTS:

### NXT Taq PCR Kit

E2530-01 100 reactions

E2530-02 200 reactions

E2530-03 500 reactions

Ready-to-use solution containing hot start NXT Taq DNA Polymerase, reaction buffer, MgCl<sub>2</sub> and dNTPs. NXT Taq PCR Kit is designed for fast-cycling PCR on any thermal cycler.

### Fast SG qPCR Master Mix (2x)

E0411-01 100 reactions

E0411-02 200 reactions

E0411-03 1000 reactions

For fast-cycling quantitative real-time PCR and two-step real-time RT-PCR. Can be used on most real-time PCR cyclers.

### Fast SG qPCR Master Mix (2x), plus ROX Solution

E0412-01 100 reactions

E0412-02 200 reactions

E0412-03 1000 reactions

For fast-cycling quantitative real-time PCR and two-step real-time RT-PCR. Can be used on most real-time PCR cyclers. Contains ROX dye (separate vial).

### Fast Probe qPCR Master Mix (2x)

E0422-01 100 reactions

E0422-02 200 reactions

E0422-03 1000 reactions

For fast-cycling quantitative real-time PCR and two-step real-time RT-PCR using sequence specific probes.

### Fast Probe qPCR Master Mix (2x), plus ROX Solution

E0423-01 100 reactions

E0423-02 200 reactions

E0423-03 1000 reactions

For fast-cycling quantitative real-time PCR and two-step real-time RT-PCR using sequence specific probes. Contains ROX dye (separate vial).

### Hybrid DNA Polymerase

E2950-01 100 u EK2950-01 100 u

E2950-02 200 u EK2950-02 200 u

Extremely thermostable DNA polymerase, enabling efficient high fidelity PCR of genomic targets up to 12 kb and episomal targets up to 20 kb. Hybrid DNA Polymerase kit (EK) contains dNTPs.

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fax 58 341 74 23  
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# NUCLEIC ACIDS ISOLATION GUIDE

| SELECTION OF THE KITS<br>DEPENDING ON THE TYPE<br>OF ISOLATED MATERIAL                                            |                                                                 |                                    | ISOLATION OF DNA                       |                                                  |                      |                                  |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           | DNA/RNA          |            |                        |                    |                       |                               |
|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------|----------------------------------------|--------------------------------------------------|----------------------|----------------------------------|-----------------|-----------|----------|------------------|------------------|--------------------|-------------------|------------------------------|----------------------|-----------------|--------------------|-----------|-----------|------------------|------------|------------------------|--------------------|-----------------------|-------------------------------|
|                                                                                                                   |                                                                 |                                    | E3600                                  | E3585                                            | E3540                | E3580                            | E3510           | E3545     | E3560    | E3565            | E3525            | E3520              | E3595             | E3535                        | E3500                | E3565           | E3515              | E3570     | E3575     | E3530            | E3550      | E3551                  |                    |                       |                               |
|                                                                                                                   |                                                                 |                                    | MICELLULA DNA 5                        | GRAM PLUS & YEAST<br>GENOMIC DNA                 | AGAROSE – OUT DNA    | BACTERIAL & YEAST<br>GENOMIC DNA | BIO – TRACE DNA | BASIC DNA | BONE DNA | CELL CULTURE DNA | FOOD EXTRACT DNA | PCR / DNA CLEAN-UP | PLANT & FUNGI DNA | AGROBACTERIUM<br>PLASMID DNA | PLASMID MINIPREP DNA | QUICK BLOOD DNA | SHORT DNA CLEAN-UP | SOL. DNA  | STOOL DNA | SWAB-EXTRACT DNA | TISSUE DNA | TISSUE & BACTERIAL DNA | DNA/RNA EXTRAOL. 4 | ENVIRONMENTAL DNA/RNA | UNIVERSAL DNA/RNA<br>/PROTEIN |
|                                                                                                                   |                                                                 |                                    | AVAILABLE NUMBER OF ISOLATIONS (PREPS) |                                                  |                      |                                  |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           | PREPS            |            |                        |                    |                       |                               |
|                                                                                                                   |                                                                 |                                    | 50<br>150                              | 25<br>100                                        | 50<br>150            | 50<br>150                        | 25<br>100       | 50<br>150 | 25<br>50 | 50<br>150        | 25<br>100        | 50<br>150          | 50<br>150         | 50<br>150                    | 50<br>150            | 50<br>150       | 25<br>100          | 50<br>100 | 50<br>100 | 25<br>100        | 50<br>150  | 50<br>150              | 25<br>100          | 25<br>100             | 25<br>100                     |
| DNA                                                                                                               | GENOMIC                                                         | BACTERIA                           | ●                                      |                                                  | ●                    |                                  |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  | ●          | ●                      | ●                  |                       |                               |
|                                                                                                                   |                                                                 | YEAST                              | ●                                      |                                                  | ●                    |                                  |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  | ●          | ●                      | ●                  |                       |                               |
|                                                                                                                   |                                                                 | CELL CULTURE                       |                                        |                                                  |                      |                                  |                 |           | ●        |                  |                  |                    |                   |                              |                      |                 |                    |           | ●         | ●                |            | ●                      | ●                  |                       |                               |
|                                                                                                                   |                                                                 | PLANT                              |                                        |                                                  |                      |                                  |                 |           |          |                  |                  | ●                  |                   |                              |                      |                 |                    |           |           |                  |            | ●                      | ●                  |                       |                               |
|                                                                                                                   |                                                                 | FUNGI                              |                                        |                                                  |                      |                                  |                 |           |          |                  |                  | ●                  |                   |                              |                      |                 |                    |           |           |                  |            | ●                      | ●                  |                       |                               |
|                                                                                                                   |                                                                 | PLANT RICH IN<br>POLYSACCHARIDES 2 |                                        |                                                  |                      |                                  |                 |           |          |                  |                  | ●                  |                   |                              |                      |                 |                    |           |           |                  |            | ●                      | ●                  |                       |                               |
|                                                                                                                   |                                                                 | BLOOD                              |                                        |                                                  |                      |                                  |                 |           |          |                  |                  |                    |                   |                              | ●                    |                 |                    |           |           |                  |            | ●                      | ●                  |                       |                               |
|                                                                                                                   |                                                                 | SOIL                               |                                        |                                                  |                      |                                  |                 |           |          |                  |                  |                    |                   |                              |                      |                 | ●                  |           |           |                  |            | ●                      | ●                  |                       |                               |
|                                                                                                                   |                                                                 | STOOL                              |                                        |                                                  |                      |                                  |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    | ●         |           |                  |            | ●                      | ●                  |                       |                               |
|                                                                                                                   |                                                                 | SEDIMENT                           |                                        |                                                  |                      |                                  |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            | ●                      | ●                  |                       |                               |
|                                                                                                                   |                                                                 | SWAB                               |                                        |                                                  |                      |                                  |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           | ●                | ●          |                        |                    |                       |                               |
|                                                                                                                   |                                                                 | ANIMAL TISSUES                     |                                        |                                                  |                      |                                  |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  | ●          | ●                      | ●                  |                       |                               |
|                                                                                                                   |                                                                 | FFPE TISSUE SECTIONS               |                                        |                                                  |                      |                                  |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  | ●          | ●                      |                    |                       |                               |
|                                                                                                                   |                                                                 | RODENT TAILS                       |                                        |                                                  |                      |                                  |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  | ●          | ●                      |                    |                       |                               |
|                                                                                                                   |                                                                 | HAIR                               |                                        |                                                  |                      |                                  |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  | ●          | ●                      |                    |                       |                               |
|                                                                                                                   |                                                                 | INSECTS                            |                                        |                                                  |                      |                                  |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  | ●          | ●                      |                    |                       |                               |
|                                                                                                                   |                                                                 | URINE                              |                                        |                                                  |                      |                                  |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  | ●          | ●                      |                    |                       |                               |
|                                                                                                                   |                                                                 | BONE                               |                                        |                                                  |                      |                                  |                 |           | ●        |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
|                                                                                                                   | BIOLOGICAL TRACES                                               |                                    |                                        |                                                  |                      | ●                                |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
|                                                                                                                   | FOOD                                                            |                                    |                                        |                                                  |                      |                                  |                 |           |          | ●                |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
|                                                                                                                   | PLASMID                                                         | BACTERIA                           |                                        |                                                  |                      |                                  |                 | ●         |          |                  |                  |                    | ●                 |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
|                                                                                                                   |                                                                 | YEAST                              |                                        |                                                  |                      | ●                                |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
|                                                                                                                   | ISOLATION FROM AGAROSE GELS                                     |                                    |                                        |                                                  | ●                    |                                  |                 | ●         |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
|                                                                                                                   | PURIFICATION OF PCR PRODUCTS / DNA<br>AFTER ENZYMATIC REACTIONS |                                    | ●                                      |                                                  |                      |                                  |                 | ●         |          |                  | ●                |                    |                   |                              |                      | ●               |                    |           |           |                  |            |                        |                    |                       |                               |
| BUFFERS FOR DNA/RNA PURIFICATION SYSTEMS                                                                          |                                                                 | Catalog                            | Package                                |                                                  |                      |                                  |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
| RL buffer                                                                                                         |                                                                 | E0310-01                           | 25 preps                               |                                                  |                      |                                  |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
| Solely for systems: E3594, E3598, E3599 and E3596. Basic binding solution for lysis and sample homooenization.    |                                                                 | E0310-02                           | 100 preps                              |                                                  |                      |                                  |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
| LG buffer                                                                                                         |                                                                 | E0312-01                           | 25 preps                               |                                                  |                      |                                  |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
| Solely for E3598 system. Solution responsible for sample lysis in E3598 kit.                                      |                                                                 | E0312-02                           | 100 preps                              |                                                  |                      |                                  |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
| DRP buffer                                                                                                        |                                                                 | E0314-01                           | 25 preps                               |                                                  |                      |                                  |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
| Solely for E3597 system. Binding solution for lysis and sample homooenization in E3597 kit.                       |                                                                 | E0314-02                           | 100 preps                              |                                                  |                      |                                  |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
| Lyse All buffer                                                                                                   |                                                                 | E0316-01                           | 25 preps                               |                                                  |                      |                                  |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
| Solely for systems: E3597 and E3599. Solution responsible for sample lysis in E3597 and E3599 kits.               |                                                                 | E0316-02                           | 100 preps                              |                                                  |                      |                                  |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
| Wash RBW                                                                                                          |                                                                 | E0318-01                           | 25 preps                               |                                                  |                      |                                  |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
| Solely for systems: E3594, E3598, E3597 and E3596. Basic solution for elution of impurities from binding columns. |                                                                 | E0318-02                           | 100 preps                              |                                                  |                      |                                  |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
| Lyse P buffer                                                                                                     |                                                                 | E0320-01                           | 50 preps                               |                                                  |                      |                                  |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
| Solely for E3595 system. Basic solution for lysis and homogenization of plant tissues in E3595 kit.               |                                                                 | E0320-02                           | 150 preps                              |                                                  |                      |                                  |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
| Sol P buffer                                                                                                      |                                                                 | E0322-01                           | 50 preps                               |                                                  |                      |                                  |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
| Solely for E3595 system. Binding solution for plant and fungi genomic DNA in E3595 kit.                           |                                                                 | E0322-02                           | 150 preps                              |                                                  |                      |                                  |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
| Lyse CT buffer                                                                                                    |                                                                 | E0324-01                           | 50 preps                               |                                                  |                      |                                  |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
| Solely for E3595 system. Additional lysing solution for plant tissues rich in polysaccharides.                    |                                                                 | E0324-02                           | 150 preps                              |                                                  |                      |                                  |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
| Lyse RBC buffer                                                                                                   |                                                                 | E0326-01                           | 100 ml                                 |                                                  |                      |                                  |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
| Solely for E3596 system. Additional lysing solution for red blood cells.                                          |                                                                 | E0326-02                           | 250 ml                                 |                                                  |                      |                                  |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
| COLUMNS FOR DNA/RNA PURIFICATION SYSTEMS                                                                          |                                                                 | Catalog                            | Package                                |                                                  |                      |                                  |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
| Columns for DNA Purification                                                                                      |                                                                 | E0330-01                           | 25 col.                                |                                                  |                      |                                  |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
| Columns for selected DNA Purification Systems.                                                                    |                                                                 | E0330-02                           | 100 col.                               |                                                  |                      |                                  |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
| Columns for RNA Purification                                                                                      |                                                                 | E0340-01                           | 2x25 col.                              |                                                  |                      |                                  |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
| Columns set (binding and homogenization columns) for selected RNA Purification Systems.                           |                                                                 | E0340-02                           | 2x100 col.                             |                                                  |                      |                                  |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
|                                                                                                                   |                                                                 |                                    |                                        | TOTAL RNA<br>LONGER THAN<br>200 BASES            |                      | ANIMAL TISSUE                    |                 |           | ●        |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
|                                                                                                                   |                                                                 |                                    |                                        |                                                  |                      | PLANT TISSUE                     |                 |           | ●        |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
|                                                                                                                   |                                                                 |                                    |                                        |                                                  |                      | BACTERIA                         |                 |           | ●        |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
|                                                                                                                   |                                                                 |                                    |                                        |                                                  |                      | YEAST                            |                 |           | ●        |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
|                                                                                                                   |                                                                 |                                    |                                        |                                                  |                      | CELL CULTURE                     |                 |           | ●        |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
|                                                                                                                   |                                                                 |                                    |                                        | HUMAN BLOOD                                      |                      | FRESH                            |                 |           | ●        | ●                | ●                |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
|                                                                                                                   |                                                                 |                                    |                                        |                                                  |                      | FROZEN 1                         |                 |           |          | ●                |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
|                                                                                                                   |                                                                 |                                    |                                        | ANIMAL BLOOD                                     |                      | FRESH                            |                 |           | ●        | ●                |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
|                                                                                                                   |                                                                 |                                    |                                        |                                                  |                      | FROZEN 1                         |                 |           |          | ●                |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
| RNA                                                                                                               |                                                                 |                                    |                                        |                                                  | ANIMAL TISSUE        |                                  | ●               |           | ●        |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
|                                                                                                                   |                                                                 |                                    |                                        |                                                  | FFPE TISSUE SECTIONS |                                  |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
|                                                                                                                   |                                                                 |                                    |                                        |                                                  | PLANT TISSUE         |                                  | ●               | ●         | ●        |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
|                                                                                                                   |                                                                 |                                    |                                        |                                                  | CELL CULTURE         |                                  | ●               |           | ●        |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
|                                                                                                                   |                                                                 |                                    | SOIL/STOOL/SEDIMENT                    |                                                  |                      | ●                                |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
|                                                                                                                   |                                                                 |                                    | BACTERIA                               |                                                  | ●                    | ●                                | ●               |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
|                                                                                                                   |                                                                 | YEAST                              |                                        | ●                                                | ●                    | ●                                |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
|                                                                                                                   |                                                                 | BLOOD/LEUKOCYTES                   |                                        | ●                                                |                      | ●                                |                 |           |          |                  |                  |                    |                   |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
|                                                                                                                   |                                                                 |                                    |                                        | PURIFICATION OF RNA<br>AFTER ENZYMATIC REACTIONS |                      |                                  |                 |           |          |                  |                  | ●                  | ●                 |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |
|                                                                                                                   |                                                                 |                                    |                                        | ON-COLUMN DNaase DIGESTION                       |                      |                                  |                 |           | ●        |                  | ●                |                    | ●                 |                              |                      |                 |                    |           |           |                  |            |                        |                    |                       |                               |

EURY<sup>®</sup>

MOLECULAR  
BIOLOGY  
PRODUCTS

| ISOLATION OF RNA |                           |       |                      |           |               |           |                 |       |                     |       |                |
|------------------|---------------------------|-------|----------------------|-----------|---------------|-----------|-----------------|-------|---------------------|-------|----------------|
| E3593            | FFPE RNA Purification Kit | E3599 | UNIVERSAL RNA mirRNA | E3598     | UNIVERSAL RNA | E3596     | HUMAN BLOOD RNA | E3594 | UNIVERSAL BLOOD RNA | E3700 | RNA EXTRAOL. 3 |
| PREPS            |                           |       |                      |           |               |           |                 |       |                     |       |                |
| 25<br>100        | 25                        | 25    | 25<br>100            | 25<br>100 | 25<br>100     | 25<br>100 |                 |       |                     |       |                |

| <div><div>EUR<sup>®</sup><sub>x</sub></div><div>MOLECULAR<br/>BIOLOGY<br/>PRODUCTS</div></div> <div>SELECTION OF THE KITS<br/>DEPENDING ON THE TYPE<br/>OF ISOLATED MATERIAL</div> |       |                               |       | DNA       |       |              |       |       |                                  |       |      |       |          |                |               | RNA                                |          |       |              |                    |              |              |                     |          |       |                  |  | ON-COLUMN<br>DNase<br>DIGESTION |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------|-------|-----------|-------|--------------|-------|-------|----------------------------------|-------|------|-------|----------|----------------|---------------|------------------------------------|----------|-------|--------------|--------------------|--------------|--------------|---------------------|----------|-------|------------------|--|---------------------------------|
|                                                                                                                                                                                    |       |                               |       | GENOMIC   |       |              |       |       |                                  |       |      |       |          |                |               | TOTAL RNA LONGER<br>THAN 200 BASES |          |       |              | miRNA OR TOTAL RNA |              |              |                     |          |       |                  |  |                                 |
|                                                                                                                                                                                    |       |                               |       | BACTERIA  | YEAST | CELL CULTURE | PLANT | FUNGI | PLANT RICH IN<br>POLYSACCHARIDES | BLOOD | SOIL | TOOLS | SEDIMENT | ANIMAL TISSUES | ANIMAL TISSUE | PLANT TISSUE                       | BACTERIA | YEAST | CELL CULTURE | ANIMAL TISSUE      | PLANT TISSUE | CELL CULTURE | SOIL/STOOL/SEDIMENT | BACTERIA | YEAST | BLOOD/LEUKOCYTES |  |                                 |
| DNA/RNA                                                                                                                                                                            | E3597 | UNIVERSAL DNA/RNA<br>/PROTEIN | PREPS | 25<br>100 | ●     | ●            | ●     | ●     |                                  |       |      |       |          | ●              | ●             | ●                                  | ●        | ●     |              |                    |              |              |                     |          | ●     |                  |  |                                 |
|                                                                                                                                                                                    | E3572 | ENVIRONMENTAL DNA/RNA         |       | 25<br>100 | ●     | ●            |       | ●     | ●                                |       |      |       | ●        | ●              | ●             |                                    |          |       | ●            |                    | ●            | ●            |                     |          |       |                  |  |                                 |
|                                                                                                                                                                                    | E3750 | DNA/RNA EXTRACOL <sup>1</sup> |       | 25<br>100 | ●     | ●            | ●     | ●     |                                  | ●     | ●    |       |          |                | ●             |                                    |          |       | ●            | ●                  | ●            |              | ●                   | ●        | ●     |                  |  |                                 |
| All kits contain buffers WASH in ready-to-use form.                                                                                                                                |       |                               |       |           |       |              |       |       |                                  |       |      |       |          |                |               |                                    |          |       |              |                    |              |              |                     |          |       |                  |  |                                 |

All kits contain buffers WASH in ready to use form

1. Kit contains phenol-based reagent for isolation DNA/RNA.

| <div>  <b>SELECTION OF THE KITS<br/>DEPENDING ON THE TYPE<br/>OF ISOLATED MATERIAL</b> </div> |                                                  |                      |           | ISOLATION OF RNA |                     |                 |               |                       |                           | PREPS |  |  |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|----------------------|-----------|------------------|---------------------|-----------------|---------------|-----------------------|---------------------------|-------|--|--|--|--|--|
|                                                                                                                                                                                |                                                  |                      |           | E3700            | E3944               | E3966           | E3988         | E3989                 | E3993                     |       |  |  |  |  |  |
|                                                                                                                                                                                |                                                  |                      |           | RNA EXTRACOL 2   | UNIVERSAL BLOOD RNA | HUMAN BLOOD RNA | UNIVERSAL RNA | UNIVERSAL RNA (miRNA) | FFPE RNA Purification Kit |       |  |  |  |  |  |
| RNA                                                                                                                                                                            | TOTAL RNA<br>LONGER THAN<br>200 BASES            | ANIMAL TISSUE        | 25<br>100 | 25               | 25                  | 25<br>100       | 25<br>100     | 25<br>100             | 25<br>100                 |       |  |  |  |  |  |
|                                                                                                                                                                                |                                                  | PLANT TISSUE         |           |                  |                     |                 | ●             | ●                     |                           |       |  |  |  |  |  |
|                                                                                                                                                                                |                                                  | BACTERIA             |           |                  |                     |                 | ●             |                       |                           |       |  |  |  |  |  |
|                                                                                                                                                                                |                                                  | YEAST                |           |                  |                     |                 | ●             |                       |                           |       |  |  |  |  |  |
|                                                                                                                                                                                |                                                  | CELL CULTURE         |           |                  |                     |                 | ●             | ●                     |                           |       |  |  |  |  |  |
|                                                                                                                                                                                |                                                  | HUMAN BLOOD          |           |                  |                     | ●               | ●             | ●                     | ●                         |       |  |  |  |  |  |
|                                                                                                                                                                                |                                                  | FRESH                |           |                  |                     | ●               |               |                       |                           |       |  |  |  |  |  |
|                                                                                                                                                                                |                                                  | FROZEN <sup>1</sup>  |           |                  |                     | ●               |               |                       |                           |       |  |  |  |  |  |
|                                                                                                                                                                                |                                                  | ANIMAL BLOOD         |           |                  |                     | ●               | ●             |                       |                           |       |  |  |  |  |  |
|                                                                                                                                                                                |                                                  | FRESH                |           |                  |                     | ●               |               |                       |                           |       |  |  |  |  |  |
|                                                                                                                                                                                |                                                  | FROZEN <sup>1</sup>  |           |                  |                     | ●               |               |                       |                           |       |  |  |  |  |  |
|                                                                                                                                                                                | miRNA<br>OR<br>TOTAL<br>RNA                      | ANIMAL TISSUE        | ●         |                  |                     |                 |               |                       | ●                         |       |  |  |  |  |  |
|                                                                                                                                                                                |                                                  | FFPE TISSUE SECTIONS |           |                  |                     |                 |               |                       |                           | ●     |  |  |  |  |  |
|                                                                                                                                                                                |                                                  | PLANT TISSUE         | ●         |                  |                     |                 |               |                       | ●                         |       |  |  |  |  |  |
|                                                                                                                                                                                |                                                  | CELL CULTURE         | ●         |                  |                     |                 |               |                       | ●                         |       |  |  |  |  |  |
|                                                                                                                                                                                |                                                  | BACTERIA             | ●         |                  |                     |                 |               |                       |                           |       |  |  |  |  |  |
|                                                                                                                                                                                |                                                  | YEAST                | ●         |                  |                     |                 |               |                       |                           |       |  |  |  |  |  |
|                                                                                                                                                                                |                                                  | BLOOD/LEUKOCYTES     | ●         |                  |                     |                 |               |                       |                           |       |  |  |  |  |  |
|                                                                                                                                                                                | PURIFICATION OF RNA<br>AFTER ENZYMATIC REACTIONS |                      |           |                  |                     |                 | ●             | ●                     |                           |       |  |  |  |  |  |
|                                                                                                                                                                                | ON-COLUMN DNase DIGESTION                        |                      |           | ●                |                     |                 | ●             |                       |                           |       |  |  |  |  |  |

All kits contain buffers WASH in ready to use form

1. Frozen with the addition of Lyse Blood buffer (included in kit).  
 2. Phenol-based reagent for isolation RNA.

| <div>  <div> <b>SELECTION OF THE KITS<br/>DEPENDING ON THE TYPE<br/>OF ISOLATED MATERIAL</b> </div> </div> |                                                              |                                            | ISOLATION OF DNA           |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
|                                                                                                                                                                                             |                                                              |                                            | E3600                      | E3600                      | E3600                      | E3600                      | E3600                      | E3600                      | E3600                      | E3600                      | E3600                      | E3600                      | E3600                      | E3600                      | E3600                      | E3600                      | E3600                      | E3600                      |
|                                                                                                                                                                                             |                                                              |                                            | MICELLULA DNA <sup>2</sup> | MICELLULA DNA <sup>2</sup> | MICELLULA DNA <sup>2</sup> | MICELLULA DNA <sup>2</sup> | MICELLULA DNA <sup>2</sup> | MICELLULA DNA <sup>2</sup> | MICELLULA DNA <sup>2</sup> | MICELLULA DNA <sup>2</sup> | MICELLULA DNA <sup>2</sup> | MICELLULA DNA <sup>2</sup> | MICELLULA DNA <sup>2</sup> | MICELLULA DNA <sup>2</sup> | MICELLULA DNA <sup>2</sup> | MICELLULA DNA <sup>2</sup> | MICELLULA DNA <sup>2</sup> | MICELLULA DNA <sup>2</sup> |
|                                                                                                                                                                                             |                                                              |                                            | 50<br>150                  | 25<br>100                  | 50<br>150                  | 50<br>150                  | 25<br>100                  | 50<br>150                  | 25<br>100                  | 50<br>150                  | 50<br>150                  | 50<br>150                  | 50<br>150                  | 50<br>150                  | 50<br>150                  | 25<br>100                  | 50<br>100                  | 50<br>150                  |
| DNA                                                                                                                                                                                         | GENOMIC                                                      | BACTERIA                                   | ●                          |                            | ●                          |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            | ●                          |
|                                                                                                                                                                                             |                                                              | YEAST                                      | ●                          |                            | ●                          |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            | ●                          |
|                                                                                                                                                                                             |                                                              | CELL CULTURE                               |                            |                            |                            |                            |                            | ●                          |                            |                            |                            |                            |                            |                            |                            |                            | ●                          | ●                          |
|                                                                                                                                                                                             |                                                              | PLANT                                      |                            |                            |                            |                            |                            |                            |                            |                            | ●                          |                            |                            |                            |                            |                            |                            |                            |
|                                                                                                                                                                                             |                                                              | FUNGI                                      |                            |                            |                            |                            |                            |                            |                            |                            | ●                          |                            |                            |                            |                            |                            |                            |                            |
|                                                                                                                                                                                             |                                                              | PLANT RICH IN POLYSACCHARIDES <sup>1</sup> |                            |                            |                            |                            |                            |                            |                            |                            | ●                          |                            |                            |                            |                            |                            |                            |                            |
|                                                                                                                                                                                             |                                                              | BLOOD                                      |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            | ●                          |                            |                            |                            |                            |                            |
|                                                                                                                                                                                             |                                                              | SOIL                                       |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            | ●                          |                            |                            |                            |                            |
|                                                                                                                                                                                             |                                                              | STOOL                                      |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            | ●                          |                            |                            |                            |
|                                                                                                                                                                                             |                                                              | SWAB                                       |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            | ●                          |                            |                            |
|                                                                                                                                                                                             |                                                              | ANIMAL TISSUES                             |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            | ●                          | ●                          |
|                                                                                                                                                                                             |                                                              | FFPE TISSUE SECTIONS                       |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            | ●                          | ●                          |
|                                                                                                                                                                                             |                                                              | RODENT TAILS                               |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            | ●                          | ●                          |
|                                                                                                                                                                                             |                                                              | HAIR                                       |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            | ●                          | ●                          |
|                                                                                                                                                                                             |                                                              | INSECTS                                    |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            | ●                          | ●                          |
|                                                                                                                                                                                             |                                                              | URINE                                      |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            | ●                          | ●                          |
|                                                                                                                                                                                             |                                                              | BONE                                       |                            |                            |                            |                            |                            | ●                          |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |
|                                                                                                                                                                                             |                                                              | BIOLOGICAL TRACES                          |                            |                            |                            |                            | ●                          |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |
|                                                                                                                                                                                             |                                                              | FOOD                                       |                            |                            |                            |                            |                            |                            | ●                          |                            |                            |                            |                            |                            |                            |                            |                            |                            |
|                                                                                                                                                                                             | PLASMID                                                      | BACTERIA                                   |                            |                            |                            |                            |                            | ●                          |                            |                            |                            | ●                          |                            |                            |                            |                            |                            |                            |
|                                                                                                                                                                                             |                                                              | YEAST                                      |                            |                            | ●                          |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |
|                                                                                                                                                                                             | ISOLATION FROM AGAROSE GELS                                  |                                            |                            |                            | ●                          |                            |                            | ●                          |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |
|                                                                                                                                                                                             | PURIFICATION OF PCR PRODUCTS / DNA AFTER ENZYMATIC REACTIONS |                                            | ●                          |                            |                            |                            |                            | ●                          |                            | ●                          |                            |                            |                            |                            | ●                          |                            |                            |                            |

All kits contain buffers WASH in ready to use form

1. Frozen with the addition of Lyse Blood buffer (included in kit).
2. Kit for creation of emulsions and subsequent DNA purification.



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