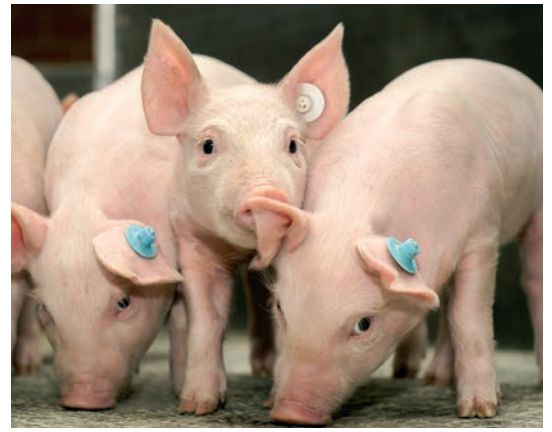


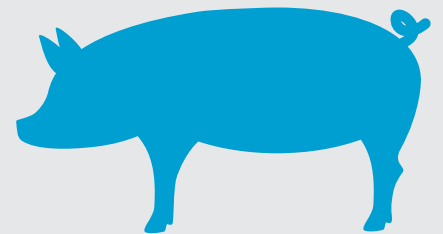
V



**Kyлт<sup>®</sup>**

# Livestock Diagnostic Products for Swine

**Kyлт<sup>®</sup> Professional *in vitro*  
Diagnostic Solutions**



[www.ky.lt.eu](http://www.ky.lt.eu)

2019/2020

# Kylt® Real-Time (RT-) PCR assays for Swine



Kylt® provides veterinary diagnostic laboratories with products for the highly sensitive and precise detection of pathogens affecting livestock as well as products for the subsequent characterization of these pathogens.

Kylt® products are developed and manufactured in Germany by veterinary diagnostic experts and are put through rigorous tests in our own daily high-throughput diagnostic routine with samples from all over the world.

## Why Kylt® is the best choice for you

At Kylt® we pride ourselves on supplying easy-to-use products, excellent customer service and the broadest range of assays available on the market today.

We consistently review and update our products and expand our product range to include newly appearing strains and meet upcoming diagnostic needs.

To enable the convenient and economic combination of Real-Time PCR assays in a single run, nearly all Kylt® assays can be run with our universal Kylt® Standard profile for both Real-Time PCR and Real-Time RT-PCR. This saves time, reduces use of consumables

and minimizes the blocking of laboratory infrastructure. In addition, all our detection products use the same pipetting volumes.

All Real-Time PCR cyclers available on the market are compatible with the Kylt® product range no specialized hardware or software is necessary.

Of course the whole process at Kylt®, including R&D, production, storage and shipment as well as customer support is certified according to ISO 9001. Furthermore, certain kits are registered at the German federal authority, Friedrich Loeffler Institut (FLI), as well as in diverse other countries.

## Kylt® Training

In regular intervals we provide an in-depth training for our customers at our site in Germany. This two-day training in small groups teaches the fundamentals for using Real-Time PCR in veterinary diagnostic applications from the sampling to the result. Learn in

small groups and prepare your own samples and run your own tests. Discuss with like-minded experts from all around the world and the Kylt® team directly. For more information, please contact us at [training@kylt.eu](mailto:training@kylt.eu).

## Kylt® Software

With the ongoing development and expansion of our Kylt® product catalogues and increasing complexity of, especially multiplexed, assays as well as various settings for different Real-Time PCR cyclers, you may hesitate to introduce Real-Time PCR in your laboratory. For these issues we have developed our Kylt® Software to simplify entering sample data, transferring

assay settings and evaluating the results, as well as accredited documentation, reporting and LIMS-connection. We recently updated to version 3.1 with new features, please contact us for further information including supported qPCR cyclers at [support@kylt.eu](mailto:support@kylt.eu).

## Regulatory information and availability

All Kylt® products are available as detection Kits, with all necessary components included. The availability of the products depends on the specific regulatory environment in your country. If you need more information on our Kylt® products and their

availability in your region, or if you have a specific demand for a product not listed please visit us on [www.kylt.eu](http://www.kylt.eu) or contact us at [support@kylt.eu](mailto:support@kylt.eu).

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## Kylt® Real-Time (RT-) PCR Setup

Kylt® Real-Time (RT-) PCR Kits comprise all reagents including controls, enzyme mixes and pathogen-specific primers and probes for an accurate pathogen detection. Particular products come including DNA Extraction-Mix, please check for correspondent sign in the tables below. **ExM**

Kylt® Real-Time (RT-) PCR products comprise control reagents to prove the validity of the assay. Pathogen specific Positive Controls help monitor the efficiency of the assay. With the Negative Control any contamination of the kit components or used consumables can be ruled out.

The products are additionally provided with controls to verify sufficient sampling, correct sample preparation and the overall

Real-Time PCR run itself. The validity check of the assay can be supplemented using further Kylt® control assays listed on page 11. For more information, please contact us at [support@kylt.eu](mailto:support@kylt.eu).

Kylt® Real-Time (RT-) PCR setups work with commonly used fluorescent dyes FAM, HEX, Cy5 and TXR. For detailed information about channels needed for the individual products, please visit us on [www.kylt.eu](http://www.kylt.eu).



## Kylt® Bacterial Pathogens and Parasites

Tested Parameter	Reactions	Article-No
Actinobacillus pleuropneumoniae	100	31439
	25	31440
Brachyspira spp. *	100	31199
	25	31200
Brachyspira hyodysenteriae and Brachyspira pilosicoli *	100	31702
	25	31703
Brucella spp.	100	31655
	25	31656
Campylobacter spp.	100	31402
	25	31403
Chlamydiaceae Screening	100	31647
	25	31648
Clostridium difficile Toxin Genes (A&B)	100	31320
	25	31321
Clostridium perfringens Major: cpa, cpep, cpb, cpi & Minor: netB, cpen, cpb2 Toxin Genes	100	31034
	25	31035
Coxiella burnetii (Q-Fever)	100	31653
	25	31654
Cryptosporidium spp.	100	31322
	25	31323
Cryptosporidium parvum	100	31324
	25	31325
E. coli series	please refer to page 5	
Haemophilus parasuis	100	31372
	25	31373
Lawsonia intracellularis* (PIA)	100	31213
	25	31214
Leptospira, pathogenic	100	31657
	25	31658
Listeria monocytogenes	100	31651
	25	31652
Mycoplasma hyorhinis and Mycoplasma hyosynoviae	100	31376
	25	31377
Mycoplasma hyopneumoniae*	100	31378
	25	31379
Pasteurella multocida Separate species-specific as well as toxA gene detection	100	31334
	25	31335
Salmonella spp. Licensed by Friedrich-Loeffler-Institute (FLI-B 656); ISO 16140 validated	<b>ExM</b>	100
	100	31019
ST DIVA 1 Salmonella Typhimurium DIVA# ???	<b>ExM</b>	100
	25	31856
Streptococcus suis series	please refer to page 5	

\* please refer to section "Kylt® Real-Time (RT-) PCR controls" on page 7 for further information on available **Kylt® Quantitative Standards**.

# **DIVA** - differentiating infected from vaccinated animals - allows for differentiation of defined vaccine strains from field strains.

1) Strain used in diverse live vaccine products provided by IDT

## Kytl® E. coli virulence factor series

Tested Parameter	Preferential application		Reactions	Article-No
	Suckling piglets	Weaners		
Escherichia coli screening	x	x	100	31316
			25	31317
E. coli virulence factors Sta, Stb, LT	x	x	100	31706
			25	31707
E. coli virulence factors F4, F5, F6	x	x	100	31710
			25	31711
E. coli virulence factors EAST, AIDA, paa	x		100	31714
			25	31715
E. coli virulence factors FimA, FimH, F41	x		100	31718
			25	31719
E. coli virulence factors F18, F41, Stx2e		x	100	31722
			25	31723

## Kytl® Streptococcus suis Serotype Real-Time PCR

Tested Parameter	Reactions	Article-No
Streptococcus suis screening	100	31380
	25	31381
Streptococcus suis Serotype 1	100	31382
	25	31383
Streptococcus suis Serotype 2	100	31384
	25	31385
Streptococcus suis Serotype 7	100	31386
	25	31387
Streptococcus suis Serotype 9	100	31388
	25	31389

## Kylt® Viral Pathogens

Tested Parameter	Reactions	Article-No
Influenza Virus Type A (exogenous control, IC-RNA) * Licensed by Friedrich-Loeffler-Institute (FLI-B 672)	100	31068
	25	31069
Influenza Virus Type A (endogenous control, $\beta$ -Actin) * Licensed by Friedrich-Loeffler-Institute (FLI-C 024)	100	31163
	25	31164
Influenza Virus Type A subtype H1 pandemic (novel swine-like H1)	100	31390
	25	31391
Influenza Virus Type D	100	31358
	25	31359
Porcine Circovirus Type 2 *	100	31394
	25	31395
Porcine Circovirus Type 3	100	31843
	25	31844
Porcine Epidemic Diarrhea Virus (PED)	100	31227
	25	31228
Porcine Parvovirus	100	31396
	25	31397
Rotavirus Type A	100	31211
	25	31212

\* please refer to section "Kylt® Real-Time (RT-) PCR controls" on page 7 for further information on available **Kylt® Quantitative Standards**.

## Kylt® Nucleic Acid Preparation

Kylt® RNA / DNA Purification Kit is intended for the purification of high quality RNA and DNA from a vast variety of veterinary sample matrices or from pure bacterial or viral culture isolates. The spin-column based kit is intended for manual application in low- to medium-throughput. The magnetic bead based kit can be automated on any magnetic bead processor or almost all liquid handlers. Please inquire for application support.

Kylt® DNA Extraction-Mixes are intended for simplified and economic DNA extraction from pure bacterial isolates or bacterial enrichments only.

Product	Reactions	Article-No
RNA / DNA Purification Kit	5x 50	31314
Combined RNA and DNA purification from veterinary samples (spin-column based)	50	31315
RNA / DNA Purification Kit HTP	4x 96	31826
Combined RNA and DNA purification from veterinary samples (magnetic bead based)		
DNA Extraction-Mix II	100	31398
DNA Extraction from pure bacterial isolates or bacterial enrichments		
DNA Extraction-Mix III	100	31404
DNA Extraction as above from gram-positive bacteria (e.g. <i>Listeria monocytogenes</i> )		

## Kylt® Enzyme Mixes

comprise outstanding performance and stability, including Real-Time and conventional PCR with or without Reverse Transcription.

Product	Reactions	Article-No
Kylt® 2x qPCR-Mix 2 x concentrated PCR Mix for Real Time PCR	100	31867
Kylt® 2x RT-qPCR-Mix 2 x concentrated PCR Mix for Real-Time RT-PCR	100	31868

## Kylt® Real-Time (RT-) PCR Controls

are available as needed. Kylt® Standards support pathogen quantification of respective samples. By this, together with defined cut-off values, the clinical relevance of detected pathogens can be evaluated.

Product	Reactions	Article-No
Host Cells (detection of host's beta-actin mRNA, Control reaction kit)	100	31106
	25	31107
IC-RNA Internal Control RNA	100	31132
Negative Control	1 mL	31133
Quantitative Standard for Brachyspira spp.	10	31408
Quantitative Standard for Influenza Virus Type A	10	31423
Quantitative Standard for Lawsonia intracellularis	10	31406
Quantitative Standard for Mycoplasma hyopneumoniae	10	31407
Quantitative Standard for Porcine Circovirus 2	10	31409

# Kylt®

## stands for...

### HIGH QUALITY

Development and manufacturing in Germany are ISO 9001 certified

### RELIABILITY

Highly satisfactory and reliable high-throughput routine diagnostic

### ACCURACY

Sensitive, precise and fully validated detection of pathogens

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