

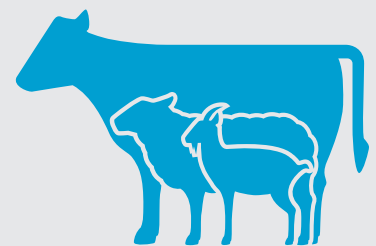
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Kylt[®]

Livestock Diagnostic Products for Ruminants

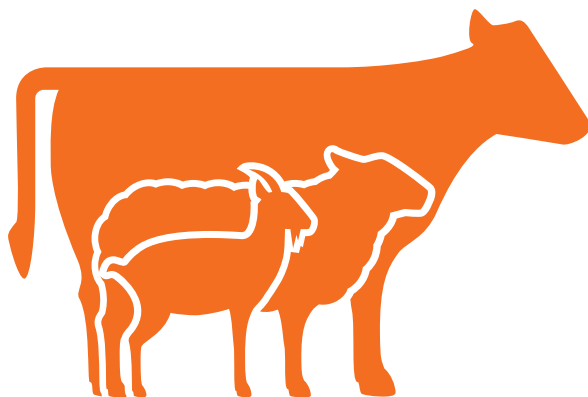
Kylt[®] Professional *in vitro*
Diagnostic Solutions



www.kylt.eu

2019/2020

Kylt® Real-Time (RT-) PCR assays for Ruminants



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.

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.

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 or contact us at 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 Internal Controls to verify sufficient sampling, correct sample preparation and the overall Real-Time PCR run. The validity check of the assay can be supplemented using further Kylt® control assays listed on page 7. For more information, please contact us at 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.



Kylt® Bacterial Pathogens and Parasites




Tested Parameter	Rxn	Art.-No.				
Brucella spp.	100	31655	X	X	X	
	25	31656				
Campylobacter spp.	100	31402	X	X	X	
	25	31403				
Chlamydiaceae screening	100	31647	X	X	X	
	25	31648				
Chlamydophila abortus	100	31649	X	X	X	
	25	31650				
Clostridium difficile Toxin Genes A & B	100	31320	X	X	X	
	25	31321				
Clostridium perfringens Major: cpa, cpep, cpb, cpi & Minor: netB, cpen, cpb2 Toxin Genes	100	31034	X	X	X	
	25	31035				
Coxiella burnetii Q-Fever	100	31653	X	X	X	
	25	31654				
Cryptosporidium spp.	100	31322	X	X	X	
	25	31323				
Cryptosporidium parvum	100	31324	X	X	X	
	25	31325				
Dichelobacter nodosus	100	31762		X	X	
	25	31763				
Dichelobacter nodosus Typing Differentiation of virulent vs. benign strains	100	31766		X	X	
	25	31767				
E. coli series	please refer to page 5					
Histophilus somni	100	31326	X	X	X	
	25	31327				
Leptospira, pathogenic	100	31657	X	X	X	
	25	31658				
Listeria monocytogenes	100	31651	X	X	X	
	25	31652				
Mycoplasma bovis	100	31330	X			
	25	31331				
Mycoplasma ovipneumoniae	100	31437		X	X	
	25	31438				
Neospora caninum	100	31332	X	X	X	
	25	31333				
Pasteurella multocida Separate species-specific as well as toxA gene detection	100	31334	X	X	X	
	25	31335				
Salmonella spp. Licensed by Friedrich-Loeffler-Institute (FLI-B 656); ISO 16140 validated	ExM	100	31019	X	X	X
ST DIVA 1 Salmonella Typhimurium DIVA [#] ST-Mutant (Histidin-Adenin-auxotroph) ¹	ExM	100	31855	X		
	25	31856				

* 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 live vaccine product Zoosaloral R provided by IDT

Kylt® E. coli series

Tested Parameter	Rxn	Art.-No.			
Escherichia coli screening	100	31316	X	X	X
	25	31317			
E. coli virulence factors Sta, Stb, LT	100	31706	X	X	X
	25	31707			
E. coli virulence factors F5, F17, F41	100	31726	X	X	X
	25	31727			
E. coli virulence factors eae, EAST	100	31730	X	X	X
	25	31731			

Kylt® Viral Pathogens

Tested Parameter	Rxn	Art.-No.			
Bovine Coronavirus	100	31352	X		
	25	31353			
Bovine Herpesvirus Type 1	100	31659	X		
	25	31660			
Bovine Herpesvirus Type 4	100	31356	X		
	25	31357			
Bovine Parainfluenzavirus-3 (PI-3)	100	31360	X	X	X
	25	31361			
Bovine Respiratory Syncytial Virus (BRSV)	100	31350	X		
	25	31351			
Influenza Virus Type D	100	31358	X	X	X
	25	31359			
Rotavirus Type A	100	31211	X	X	X
	25	31212			

Kylt® Nucleic Acid Preparation

Kylt® RNA / DNA Purification Kits are 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 for medium- to high-throughput. 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 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 one-step 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	100	31106
Detection of both host's beta-actin mRNA and spiked Internal Control RNA, Control reaction kit	25	31107
IC-RNA; Internal Control RNA	100	31132
Negative Control	1 mL	31133

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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