

KYLT[®]

SAN[®]
VET



LIVESTOCK DIAGNOSTIC PRODUCTS

RUMINANTS

KYLT IN VITRO DIAGNOSTIC SOLUTIONS
2024

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Passion for Innovation



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, selected kits have the MicroVal® certificate for proprietary method, 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-DE@san-group.com.

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. Please contact us for further information including supported qPCR cyclers at kylt-DE@san-group.com.

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, if you have a specific demand for a product not listed please visit us on www.kylt.eu or contact us at kylt-DE@san-group.com.

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KYLT® REAL-TIME (RT-) PCR SETUP

Kylt® Real-Time (RT-) PCR Kits comprise all reagents including enzyme mixes and pathogen-specific primers and probes for an accurate pathogen detection.




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 6. For more information, please contact us at kylt-DE@san-group.com.

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

Product Name	Tested Parameter Description	Reactions		 Cattle	 Sheep	 Goat
		100	25			
Bordetella bronchiseptica / parapertussis	Bordetella bronchiseptica / Parapertussis Separate and species-specific detection	31545	31546		x	
Brucella spp.	Brucella spp. Genus-specific screening / detection	31655	31656	x	x	x
Campylobacter spp	Campylobacter spp. Genus-specific screening / detection	31402	31403	x	x	x
Campylobacter jejuni, coli & lari	Campylobacter jejuni, coli & lari Separate and species-specific detection	31451	31452	x	x	x
Chlamydiaceae	Chlamydiaceae screening Genus-specific screening / detection	31647	31648	x	x	x
Cp. abortus	Chlamydophila abortus Species-specific detection	31649	31650	x	x	x
C. difficile A & B qPCR	Clostridioides difficile Toxin genes A & B Separate and gene-specific detection	31320	31321	x	x	x
Clost. perf.	Clostridium perfringens Separate and gene-specific detection of Major Toxins: cpa, cpep, cpb, cpi & Minor Toxins: netB, cpen, cpb2	31034	31035	x	x	x
Coxiella burnetii	Coxiella burnetii (Q-Fever) Species-specific detection	31653	31654	x	x	x
Cryptosporidium spp	Cryptosporidium spp. Genus-specific screening / detection	31322	31323	x	x	x
Cryptosporidium parvum	Cryptosporidium parvum Species-specific detection	31324	31325	x	x	x
Dichelobacter nodosus	Dichelobacter nodosus Species-specific detection	31762	31763		x	x
Dichelobacter nodosus typing	Dichelobacter nodosus virulent vs. benign strains Pathotype-specific detection	31766	31767		x	x
Sta, Stb, LT	E. coli Virulence Factors Sta, Stb, LT Separate and gene-specific detection	31706	31707	x	x	x
F5, F17, F41	E. coli Virulence Factors F5, F17, F41 Separate and gene-specific detection	31726	31727	x	x	x
eae, EAST	E. coli Virulence Factors eae, EAST Separate and gene-specific detection	31730	31731	x	x	x
NEW Erysipelothrix rhusiopathiae	Erysipelothrix rhusiopathiae (Erysipelas) Species-specific detection	31770	31771	x	x	x
Histophilus somni	Histophilus somni Species-specific detection	31326	31327	x	x	x
Leptospira, pathogenic	Leptospira, pathogenic Genus-specific detection	31657	31658	x	x	x
Listeria monocytogenes	Listeria monocytogenes Species-specific detection	31651	31652	x	x	x
Mannheimia haemolytica	Mannheimia haemolytica Species-specific detection	31445	31446	x	x	x

KYLT® BACTERIAL PATHOGENS AND PARASITES – CONTINUED

Product Name	Tested Parameter Description	Reactions		 Cattle	 Sheep	 Goat
		100	25			
Mycoplasma spp.	Mycoplasma spp. Genus-specific detection	31116	31117	x	x	x
Mycoplasma bovirhinis	Mycoplasma bovirhinis Species-specific detection	31663	31664	x		
Mycoplasma bovis	Mycoplasma bovis Species-specific detection	31330	31331	x		
Mycoplasma ovipneumoniae	Mycoplasma ovipneumoniae Species-specific detection	31437	31438		x	x
Neospora caninum	Neospora caninum Species-specific detection	31332	31333	x	x	x
P. multocida & toxA qPCR	Pasteurella multocida Separate and species-specific as well as toxA gene detection	31334	31335	x	x	x
Salm spp 2.0 no ExM  	Salmonella spp. Species-specific detection Validated according to ISO 16140	31302	-	x	x	x
ST DIVA	Salmonella Typhimurium & ST mutant (Histidin-Adenin-auxotroph) Strain used in live vaccines e.g. by CEVA	31855	31856	x		
Toxoplasma gondii	Toxoplasma gondii Species-specific detection	31312	31313	x	x	x

KYLT® VIRAL PATHOGENS

Product Name	Tested Parameter Description	Reactions		 Cattle	 Sheep	 Goat
		100	25			
bovine Coronavirus	Bovine Coronavirus Species-specific detection	31475	31476	x		
bovine Herpesvirus 1	Bovine Herpesvirus 1 (BoHV-1) Species-specific detection	31659	31660	x		
bovine Herpesvirus 4	Bovine Herpesvirus 4 (BoHV-4) Species-specific detection	31356	31357	x		
PI3	Bovine Parainfluenzavirus-3 (BPIV-3 / Bovine Respirivirus 3) Species-specific detection	31360	31361	x	x	x
BRSV	Bovine Respiratory Syncytial Virus (BRSV / Bovine Orthopneumovirus) Species-specific detection	31350	31351	x		
NEW FMD	Foot and Mouth Disease Virus (FMDV) Species-specific detection	31863	31864	x	x	x
Influenza Virus Type D	Influenza Virus D (IVD) Species-specific detection	31358	31359	x	x	x
Rotavirus A	Rotavirus A (RV-A) Species-specific detection	31211	31212	x	x	x

KYLT® ENZYME MIXES

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

Product Name	Description	Art.-No 100 reactions
2x qPCR-Mix	2 x concentrated PCR Mix for Real-Time PCR	31867
2x RT-qPCR-Mix	2 x concentrated PCR Mix for one-step Real-Time RT-PCR	31868

KYLT® REAL-TIME (RT-)PCR CONTROLS

Product Name	Description	Reactions	Art.-No.
Host Cells	Detection of both host's beta-actin mRNA and spiked Internal Control RNA, Control reaction kit	100	31106
		25	31107
IC-RNA	Internal Control RNA	100	31132
Negative Control	-	1 mL	31133

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 Extractionmixes are intended for simplified and economic DNA extraction from pure bacterial isolates or bacterial enrichments only.

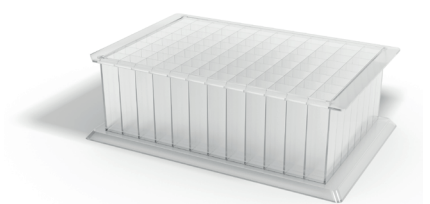
Product Name	Description	Content / Rxn	Art.-No
RNA / DNA Purification	Combined RNA and DNA purification from veterinary samples (spin-column based)	50	31315
RNA/DNA Purification HTP	Magnetic bead based combined RNA and DNA purification kit for veterinary diagnostic samples. Suitable for Kylt® Purifier and Kylt® Purifier 48	4× 96	31575
NEW Salmonella Purification HTP	Magnetic bead based DNA purification from Salmonella pre-enrichment samples. Suitable for Kylt® Purifier and Kylt® Purifier 48	4× 96	31433
DNA Extractionmix II	DNA extraction from pure bacterial isolates or bacterial enrichments	100	31398
DNA Extractionmix III	DNA extraction as above from gram-positive bacteria (e.g. <i>Listeria monocytogenes</i>)	100	31404

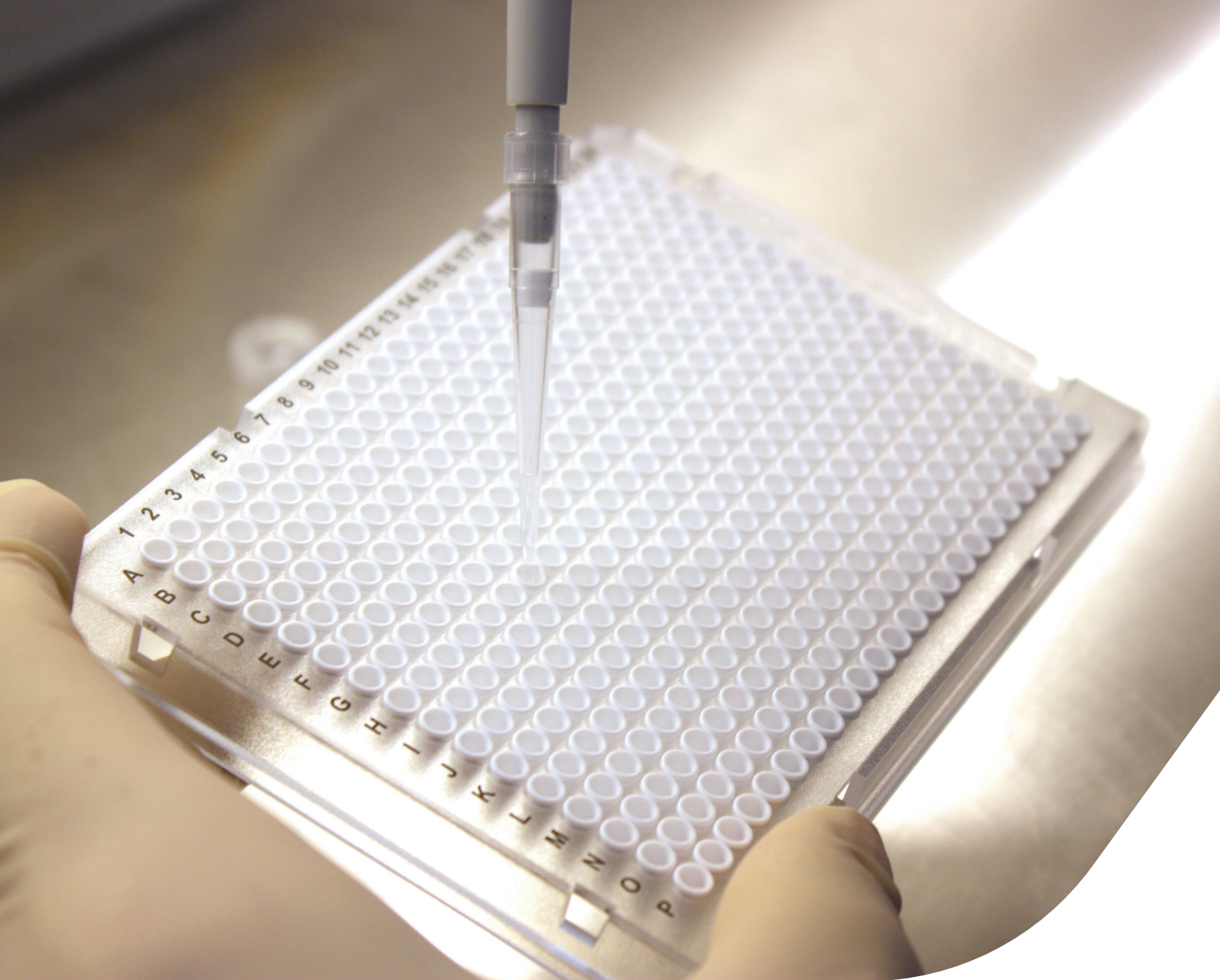
KYLT® PURIFICATION SYSTEM AND CONSUMABLES

The **Kylt® Purifier** and **Kylt® Purifier 48** are our new solutions for the automated magnetic bead-based purification of RNA and DNA from any sample. These systems feature extremely fast processing with a run-time of about 30 minutes (excluding lysis) for up to 96 samples to purify DNA and RNA from diagnostic samples or to purify DNA from Salmonella pre-enrichment-samples.



Product Name	Description	Content / Rxn	Art.-No
Purifier	Purification system for magnetic bead based kits. Up to 96 samples are processed in under 30 minutes. Intended for high-throughput laboratories	1 unit	31436
NEW Purifier 48	Purification system for magnetic bead based kits. Up to 48 samples are processed in under 30 minutes. Intended for low to medium throughput laboratories	1 unit	31748
RNA/DNA Purification HTP	Magnetic bead based combined RNA and DNA purification kit for veterinary diagnostic samples. Suitable for Kylt® Purifier and Kylt® Purifier 48	4 × 96	31575
NEW Salmonella Purification HTP	Magnetic bead based DNA purification from Salmonella pre-enrichment samples. Suitable for Kylt® Purifier and Kylt® Purifier 48	4 × 96	31433
Purifier Spin Tips	Plate with 96 separate spin tips, used by the Kylt® Purifier to mix the well contents by stirring. Sufficient for 480 samples	5 Plates	31434
Purifier Plates	Plates to be used for the several reactions and reagents during automated nucleic acid purification. Sufficient for 320 to 480 samples (depending on device and protocol)	20 Plates	31435





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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For veterinary diagnostic use only. For in vitro use only. Regulatory requirements vary by country, these products may not be available in your geographic area.

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Management System
ISO 9001:2015

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