



Kylt®

Livestock Diagnostic Products for Poultry

Kylt® Professional *in vitro*
Diagnostic Solutions



www.kylt.eu

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Kylt® Livestock Diagnostic Products for Poultry



The Kylt® products are designed for rapid and precise pathogen identification or characterisation in samples derived from livestock. Kylt® products are able to support trustworthy detection of various diseases to counteract health risk in livestock. Our product range comprises *In Vitro* Diagnostics for diverse applications: detection of bacterial DNA, viral DNA and viral RNA; a series of bacterial DNA detection kits additionally include the DNA preparation step.

Discover Kylt® Livestock Diagnostic Products for Poultry

Our Kylt® Livestock Diagnostic Products come in different configurations. The table below gives an overview of

- which reagents are included in the product
- which basic technique – Real-Time vs. conventional PCR, RT-PCR vs. PCR – is used in the product
- if additional products are needed to compile a full set of reagents for the respective testing
- if additional protocol steps, such as Agarose Gel Electrophoresis, are needed to compile the full method.

The information below applies for all articles per product category. Detailed information per individual product categories are listed in the following pages.

If you need more information on our Kylt® products and categories or you have a specific demand for a product not listed, please visit us on www.kylt.eu or contact us at info@kylt.eu

Product Category	complete kit	including DNA Extraction-Mix [§]	Real-Time (RT-)PCR (Primers and Probes included)	conventional (RT-)PCR (Primers included)	Controls included	Agarose Gel Electrophoresis required	further PCR reagents necessary
Kylt® DNA-Extraction & Real-Time PCR Detection Kits [§]	X	X	X	-	X	-	-
Kylt® Real-Time PCR Detection Kits	X	-	X	-	X	-	-
Kylt® Real-Time PCR Detection Reagents [#]	-	-	X	-	X	-	A
Kylt® DNA-Extraction & PCR Detection Kits (conventional) [§]	X	X	-	X	X	X	-
Kylt® PCR Detection Kits (conventional)	X	-	-	X	X	X	-
Kylt® Real-Time RT-PCR Detection Kits	X	-	X	-	X	-	-
Kylt® Real-Time RT-PCR Detection Reagents [#]	-	-	X	-	X	-	B
Kylt® RT-PCR Detection Kits (conventional)	X	-	-	X	X	X	-
Kylt® RT-PCR Detection Reagents [#] (conventional)	-	-	-	X	X	X	C

BCD Enzyme Mixes (please refer to page 11/12)

- A BCD 2x qPCR-Mix
- B BCD 2x RT-qPCR-Mix
- C BCD 2x RT-PCR-Mix

[#] Kylt® Detection Reagents come with all necessary primers (and probes) and controls for specific detection but without enzyme mixes.
[§] This product includes DNA Extraction-Mix for convenient and simple DNA extraction, but it may also be used with the Kylt® RNA / DNA Purification kit.
For any product that does not include DNA Extraction-Mix, separate DNA/RNA preparation methods, e.g. Kylt® RNA/DNA Purification, are obligatory.

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German market authorised Kylt® Diagnostic Products

In Germany *In Vitro* Diagnostic Systems for the detection of notifiable or reportable animal diseases have to be officially authorised by the Friedrich-Loeffler-Institute (FLI) – German Federal Research Institute For Animal Health – before commercialisation. After market authorisation by FLI, every batch of an authorised *in vitro* diagnostic product needs additional release by the FLI. The following Kylt® livestock diagnostic products were authorised by the FLI.

- **Kylt® *Salmonella* spp.** – DNA Extraction and Real-Time PCR Detection Kit for *Salmonella* spp. suitable for sock swabs, faeces and dust samples from chicken and turkey (approved alternative method to cultural detection based on EN ISO 6579, validated acc. to ISO 16140)
- **Kylt® MGS Triplex** – DNA Extraction and Real-Time PCR Detection Kit for *Mycoplasma gallisepticum* and *Mycoplasma synoviae* suitable for swab sampling material as well as pure and mixed cultural material from chicken and turkey
- **Kylt® Influenza A & Kylt® IVA beta RT-qPCR** – Real-Time RT-PCR Detection Kits for Influenza Virus Type A suitable for swab sampling material, organs, tissues, faeces, saliva- and BALF-samples and sampling material derived from cultural processes from birds and swine

We are the DIVA specialists

Kylt® DIVA kits put a new tool in the diagnosticians' tool box, that allows the distinction between closely related pathogen strains, i.e., between vaccine and field strains. No other common method enables veterinary diagnostic professionals to grant customers with peace of mind. Over the years our researchers have compiled a tremendous expertise, which now has led to the develop-

ment of a broad range of DIVA kits. Further, said expertise helped to develop similar kits that distinguish between strains that e.g., have differing pathogenic potentials or represent varying subpopulations such as IB-variants. In the following product lists you will find these products marked as DIVA kits.

Kylt® DNA Extraction and Real-Time PCR Detection Kits are intended for the preparation and detection of bacterial DNA from all pathogens listed below. The detection kits contain all reagents and controls necessary for reliable and accurate detection. The combination of DNA extraction and Real-Time PCR detection in a single kit provides optimal performance. Alternatively, DNA purification can be carried out with any other suitable method, such as Kylt® RNA/DNA Purification (please refer to page 11).

Real-Time

Product	Tested Parameter / Features	Quantity of Reactions	Article Number
Kylt® Salmonella spp.	Salmonella spp. (German market authorization FLI-B 656)	100	31019
Kylt® SE DIVA 1	Salmonella Enteritidis - DIVA* 441/014 (ade ⁻ /his ⁻) ¹	100	31159
		25	31160
Kylt® SE DIVA 2	Salmonella Enteritidis - DIVA* Sm24/Rif12/Ssq ²	100	31161
		25	31162
Kylt® MGS Triplex	Mycoplasma gallisepticum / synoviae Triplex (German market authorization FLI-B 663)	100	31020
		25	31021
Kylt® Mycoplasma gallisepticum	Mycoplasma gallisepticum	100	31022
		25	31023
Kylt® MG 6/85 DIVA	Mycoplasma gallisepticum - DIVA* 6/85 & F-strain	100	31197
		25	31198
Kylt® MG ts-11 DIVA	Mycoplasma gallisepticum - DIVA* ts-11 ³	100	31410
		25	31411
Kylt® Mycoplasma synoviae	Mycoplasma synoviae	100	31024
		25	31025
Kylt® MS-H DIVA	Mycoplasma synoviae - DIVA* MS-H ³	100	31134
		25	31135
Kylt® MS1 DIVA	Mycoplasma synoviae - DIVA* MS1 ⁴	100	31412
		25	31413
Kylt® Mycoplasma iowae	Mycoplasma iowae	100	31026
		25	31027
Kylt® Mycoplasma meleagridis	Mycoplasma meleagridis	100	31028
		25	31029
Kylt® ORT	Ornithobacterium rhinotracheale	100	31030
		25	31031
Kylt® Riemerella anatipestifer	Riemerella anatipestifer	100	31032
		25	31033
Kylt® Clostridium difficile A&B	Clostridium difficile Toxin Genes A & B	100	31320
		25	31321
Kylt® Clostridium perfringens	Clostridium perfringens Major (a / b / e / i) and Minor (b2 / entero / netB) Toxin Genes	100	31034
		25	31035
Kylt® E. coli	Escherichia coli	100	31316
		25	31317

***DIVA - differentiating infected from vaccinated animals - allows for differentiation of defined vaccine strains from field strains, please refer to product-specific documents (Validation Report, Direction For Use)**

1. Strain used in live vaccine products provided by Merial and IDT.
2. Strain used in live vaccine products provided by ELANCO/ Lohmann Animal Health.
3. Strain used in live vaccine product provided by Bioproperties.
4. Strain used in live vaccine product provided by MSD/ Intervet.

Kylt® Real-Time PCR Detection Kits are intended for the detection of viral or bacterial DNA from all pathogens listed below. The detection kits contain all reagents and controls that are necessary for reliable and accurate detection.

Product	Tested Parameter / Features	Quantity of Reactions	Article Number
Kylt® Brachyspira spp.	Screening for all Brachyspira species [#]	100	31199
		25	31200
Kylt® Histomonas meleagridis	Histomonas meleagridis	100	31416
		25	31417
Kylt® MDPV/GPV	Muscovy Duck Parvovirus / Goose Parvovirus	100	31138
		25	31139
Kylt® MDPV/GPV Typing	Differentiation of Muscovy Duck / Goose Parvovirus	100	31171
		25	31172
Kylt® Parvo DIVA 1	Goose Parvovirus - DIVA* Hoekstra	100	31175
		25	31176
Kylt® Goose Polyomavirus	Goose Polyomavirus (HNEG)	100	31414
		25	31415

*DIVA - differentiating infected from vaccinated animals - allows for differentiation of defined vaccine strains from field strains, please refer to product-specific documents (Validation Report, Direction For Use)

please refer to section "Kylt® Real-Time (RT-)PCR controls" for further information on available quantification standards.

Kylt® Real-Time PCR Detection Reagents contain all controls, primers and probes for pathogen-specific detection. Compatible enzyme mixes are available separately. Please refer to page 11.

Product	Tested Parameter / Features	Quantity of Reactions	Article Number
Kylt® Chlamydiaceae Screening	Screening for all Chlamydiaceae species	100	31036
		25	31037
Kylt® Chl. psittaci	Chlamydia psittaci	100	31038
		25	31039
Kylt® Chl. abortus	Chlamydia abortus	100	31040
		25	31041
Kylt® Chl. avium	Chlamydia avium	100	31201
		25	31202
Kylt® Chl. gallinacea	Chlamydia gallinacea	100	31203
		25	31204
Kylt® MDV & Rispens DIVA	Marek Disease Virus detection & DIVA* Rispens	100	31418
		25	31419
Kylt® ILT	Infectious Laryngotracheitis Virus (Gallid Herpesvirus 1)	100	31042
		25	31043

*DIVA - differentiating infected from vaccinated animals - allows for differentiation of defined vaccine strains from field strains, please refer to product-specific documents (Validation Report, Direction For Use)

Kylt® DNA Extraction and PCR Detection Kits are intended for the preparation and detection of bacterial DNA from the pathogens listed below. The detection kits contain all reagents and controls necessary for specific detection of the respective pathogen. The combination of DNA extraction and PCR detection in a single kit provides optimal performance. Alternatively DNA extraction can be carried out with Kylt® RNA/DNA Purification kit or any other suitable method. The subsequent analysis is realized by classical gel electrophoresis (e.g. agarose gel electrophoresis or capillary gel electrophoresis).

Product	Tested Parameter / Features	Quantity of Reactions	Article Number
Kylt® APEC	Avian Pathogenic Escherichia Coli 8 x Virulence Factors	100	31046
		25	31047
Kylt® Coryza	Avibacterium paragallinarum (Infectious Coryza)	100	31048
		25	31049
Kylt® Bordetella avium	Bordetella avium	100	31050
		25	31051
Kylt® Clostridium difficile	Clostridium difficile Toxin Genes (A & B)	100	31052
		25	31053
Kylt® Erysipelothrix	Erysipelothrix spp. (Genus-specific) & E. rhusiopathiae (Species-specific)	100	31054
		25	31055
Kylt® Pasteurella multocida	Pasteurella multocida (Species-specific)	100	31058
		25	31059

Kylt® PCR Detection Kits contain all reagents, controls and primers for pathogen-specific detection. The subsequent analysis is realized by classical gel electrophoresis (e.g. agarose gel electrophoresis or capillary gel electrophoresis).

Product	Tested Parameter / Features	Quantity of Reactions	Article Number
Kylt® HM	Histomonas meleagridis	100	31056
		25	31057
Kylt® SGP & 9R DIVA	Salmonella Gallinarum, Pullorum (separate detection) & DIVA* 9R	100	31420
		25	31421
Kylt® CAV	Chicken Anaemia Virus (Circoviridae)	100	31060
		25	31061
Kylt® Duck Circovirus	Duck Circovirus & Goose Circovirus (Species-specific)	100	31062
		25	31063
Kylt® EDS76	Egg Drop Syndrome Virus (EDS76, 127-like, Duck Adenovirus)	100	31064
		25	31065
Kylt® Hemorrhagic Enteritis Virus	Turkey Hemorrhagic Enteritis Virus (Adenoviridae)	100	31066
		25	31067
Kylt® Duck Enteritis Virus	Duck Enteritis Virus (Anatid Herpesvirus 1)	100	31140
		25	31141
Kylt® Fowl Adenovirus	Fowl Adenovirus (Group I)	100	31144
		25	31145

*DIVA - differentiating infected from vaccinated animals - allows for differentiation of defined vaccine strains from field strains, please refer to product-specific documents (Validation Report, Direction For Use)

Real-Time

Kylt® Infectious Bronchitis Real-Time RT-PCR Detection Kits are intended for the detection of avian Coronaviruses and variant-specific detection and differentiation of the listed variants of the Infectious Bronchitis Virus. The detection kits contain all reagents and controls that are necessary for the process of Reverse Transcription followed by Real-Time PCR to ensure a reliable and accurate detection.

Product	Tested Parameter / Features	Quantity of Reactions	Article Number
Kylt® IB-aCoV	Infectious Bronchitis Virus and further avian Coronaviruses (incl. TuCV) [#]	100	31193
		25	31194
Kylt® IBV-Variant 4/91 (793b)	Infectious Bronchitis Virus - Variant 4/91 (793b)	100	31082
		25	31083
Kylt® IBV-Variant Massachusetts	Infectious Bronchitis Virus - Variant Massachusetts	100	31084
		25	31085
Kylt® IBV-Variant D274	Infectious Bronchitis Virus - Variant D274	100	31086
		25	31087
Kylt® IBV-Variant Arkansas	Infectious Bronchitis Virus - Variant Arkansas	100	31088
		25	31089
Kylt® IBV-Variant Italy02	Infectious Bronchitis Virus - Variant Italy02	100	31090
		25	31091
Kylt® IBV-Variant D1466	Infectious Bronchitis Virus - Variant D1466	100	31092
		25	31093
Kylt® IBV-Variant QX	Infectious Bronchitis Virus - Variant QX	100	31094
		25	31095
Kylt® IBV-Variant 02	Infectious Bronchitis Virus - Variant 02 (IS 1494 / Israel 02)	100	31187
		25	31188
Kylt® IBV-Variant Q1	Infectious Bronchitis Virus - Variant Q1	100	31179
		25	31180

[#] please refer to section "Kylt® Real-Time (RT)-PCR controls" for further information on available quantification standards.

Kylt® Real-Time RT-PCR Detection Kits are intended for the detection of viral RNA from the pathogens listed below. The detection kits contain all reagents and controls that are necessary for the process of Reverse Transcription (RT) followed by Real-Time PCR and allow for a reliable and accurate detection of the pathogen.

Product	Tested Parameter / Features	Quantity of Reactions	Article Number
Kylt® Influenza A	Influenza Virus Type A (exogenous control, IC-RNA) [#] German market authorization FLI-B 672	100	31068
		25	31069
Kylt® IVA beta RT-qPCR	Influenza Virus Type A (endogenous control, β-Actin) [#] German market authorization FLI-C 024	100	31163
		25	31164
Kylt® Influenza A - H9	Avian Influenza Virus H9 (H9-type-specific)	100	31070
		25	31071
Kylt® aMPV A&B	Avian Metapneumovirus Subtype A & B (TRT, ART)	100	31072
		25	31073
Kylt® aMPV C	Avian Metapneumovirus Subtype C (TRT, ART)	100	31074
		25	31075
Kylt® aMPV D	Avian Metapneumovirus Subtype D (TRT, ART)	100	31076
		25	31077
Kylt® Avian Nephritis Virus	Avian Nephritis Virus (Avastrovirus 2)	100	31098
		25	31099
Kylt® Chicken Astrovirus	Chicken Astrovirus (Group A & B)	100	31181
		25	31182
Kylt® Avian Hepatitis E	Avian Hepatitis E Virus (aHEV, Hepevirus, BLSD, Big Liver and Spleen Disease Virus)	100	31100
		25	31101
Kylt® Turkey Viral Hepatitis	Turkey Viral Hepatitis Virus (Picornaviridae)	100	31102
		25	31103
Kylt® Avian Reovirus RT-qPCR	Avian Orthoreovirus	100	31209
		25	31210
Kylt® Avian Rotavirus A&D	Avian Rotavirus Group A & D (Group-specific)	100	31104
		25	31105
Kylt® REV	Reticuloendotheliosis Virus	100	31424
		25	31425
Kylt® Host Cells	Host Cells (detection of beta-Actin mRNA, Control Reaction Kit)	100	31106
		25	31107

[#] please refer to section "Kylt® Real-Time (RT-)PCR controls" for further information on available quantification standards.

Kylt® Real-Time RT-PCR Detection Reagents contain all controls, primers and probes for pathogen-specific detection but without enzyme mixes. Compatible enzyme mixes are available separately. Please refer to page 11.

Product	Tested Parameter / Features	Real-Time	
		Quantity of Reactions	Article Number
Kylt® Influenza A - H5	Avian Influenza Virus H5 (H5-type-specific)	100	31108
		25	31109
Kylt® Influenza A - H7	Avian Influenza Virus H7 (H7-type-specific)	100	31110
		25	31111
Kylt® Influenza A - N1	Avian Influenza Virus N1 (N1-type-specific)	100	31112
		25	31113
Kylt® Paramyxovirus 1	Avian Paramyxovirus Type 1 (Newcastle Disease Virus, NDV)	100	31114
		25	31115
Kylt® IBDV Serotype 1	Infectious Bursal Disease Virus (Gumboro) Serotype 1 Differentiation of very virulent and intermediate plus strains vs. intermediate and non virulent strains	100	31183
		25	31184

Kylt® RT-PCR Detection Kits are intended for the detection of viral RNA of the pathogens listed below. The detection kits contain all reagents and controls necessary for the process of Reverse Transcription (RT) followed by PCR. The subsequent analysis is realized by classical gel electrophoresis (e.g. agarose gel electrophoresis or capillary gel electrophoresis).

Product	Tested Parameter / Features	Gel	
		Quantity of Reactions	Article Number
Kylt® Avian Encephalomyelitis	Avian Encephalomyelitis-like Virus 1 (Hepatovirus, Picornaviridae)	100	31118
		25	31119
Kylt® Duck Baiyangdian Virus	Duck Baiyangdian Virus (BYDV, Flaviviridae)	100	31120
		25	31121
Kylt® Duck Hepatitis Virus	Duck Hepatitis Virus Type I (DHV-I, Picornaviridae)	100	31122
		25	31123
Kylt® Chicken Astrovirus	Chicken Astrovirus	100	31124
		25	31125
Kylt® Turkey Astrovirus	Turkey Astrovirus (Differentiation of type 1 and type 2)	100	31136
		25	31137
Kylt® Reticuloendotheliosis Virus	Reticuloendotheliosis Virus	100	31142
		25	31143
Kylt® Avian Reovirus	Avian Orthoreovirus	100	31146
		25	31147

Kylt® RT-PCR Detection Reagents contain all controls and primers for pathogen-specific detection but without enzyme mixes. Compatible enzyme mixes are available separately, see below.

Product	Tested Parameter / Features	Quantity of Reactions	Article Number
Kylt® IBDV	Infectious Bursal Disease Virus (Gumboro, serotype 1 & 2)	100	31126
		25	31127



Kylt® Real-Time (RT-)PCR Controls are available separately as needed.

Product	Tested Parameter / Features	Quantity of Reactions	Article Number
Kylt® IC-RNA	Internal Control RNA	100	31132
Kylt® Negative Control	Negative Control	1 mL	31133
Kylt® Brachyspira spp. Standard	Quantitative Standard for Brachyspira spp.	25	31408
Kylt® Infectious Bronchitis Standard	Quantitative Standard for Infectious Bronchitis	25	31422
Kylt® Influenza A Standard	Quantitative Standard for Influenza A	25	31423

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.

Kylt® RNA / DNA Purification is a purification kit for all types of veterinary samples, intended to purify RNA and DNA simultaneously from a single sample as an ideal combination with all Kylt® PCR Kits.

Product	Tested Parameter / Features	Quantity of Reactions	Article Number
Kylt® RNA / DNA Purification	Combined RNA and DNA purification from veterinary samples.	5x 50	31314
		50	31315

BCD Enzyme Mixes are suitable to be combined with the respective Kylt® Detection Reagents to complete the (Real-Time) (RT-) PCR method. These mixes ensure outstanding performance and stability, for Real-Time as well as conventional PCR with or without Reverse Transcriptase.

Product	Tested Parameter / Features	Quantity of Reactions	Article Number
BCD 2x qPCR-Mix	2 fold concentrated Real-Time PCR-Mix	100	31129
BCD 2x PCR-Mix	2 fold concentrated conventional PCR-Mix	100	31131
BCD 2x RT-qPCR-Mix	2 fold concentrated Real-Time RT-PCR-Mix	100	31128
BCD 2x RT-PCR-Mix	2 fold concentrated conventional RT-PCR-Mix	100	31130

The Kylt® Real-Time (RT-)PCR products provide you with the following advantages:

- Identical thermal profiles for similar assays allow a combination in a single PCR-run.
- You can run them on virtually all Real-Time PCR thermal cyclers.
- They allow economic pooling of individual samples (in contrast to serology).
- They proved to be highly satisfactory and reliable in our daily high-throughput routine diagnostic services for samples from all over the world.
- They are fully validated according to applicable German FLI-guidelines, ISO 16140 etc. to meet all potential regulatory requirements by your authorities.
- They have received market authorisation in Germany by FLI (this currently applies to Kylt® Salmonella spp., Kylt® Influenza A, Kylt® IVA beta RT-qPCR and Kylt® MGS Triplex).

The users of our Kylt® Real-Time (RT-)PCR products benefit from:

- Direct support by your local technical and academic contact partner.
- Background support by our experts in Germany.
- A choice of different hands-on training options at AniCon's training center in Germany, at the local distributors site or at your site.
- Our **Kylt® Software** simplifies the entry of sample data, PCR run, analysis and reporting of results. It is provided to our customers free of charge and may be customized to their individual equipment, QC-requirements and linkage to LIMS, if applicable.
- Regular updates of individual kits to assure inclusion of all emerging strains worldwide.
- Ongoing extension of the product catalogue with respect to upcoming diagnostic needs.

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