



Infectious Bursal Disease

Detection and Differentiation with Kylt® Real-Time RT-PCR

Infectious Bursal Disease (IBD, also known as Gumboro disease) is a viral disease affecting chicken and is caused by the Infectious Bursal Disease Virus (IBDV).

Gumboro is one of the most prevalent viral diseases in poultry production with significant economic impact on production of broilers and rearing of commercial layers or parent stock.

Serotype 1 strains are pathogenic for chickens and can be subdivided in strains of different virulence. The clinical outcome of an infection can vary from inapparent or subclinical to highly acute disease with significant mortality. Pathognomonic alterations are inflammatory swelling, hemorrhages of the bursa of Fabricius and bleedings in muscles and the proventriculus. Infection always results in patho-morphological and histological lesions, independent of the pathogenicity of the strain involved and even by attenuated vaccine strains. Due to these characteristics, it may be challenging to clearly assign the clinical and patho-morphological signs observed to the vaccine strain used or to a field challenge.

Kylt® IBDV Pathotyping enables the detection of Infectious Bursal Disease Virus Serotype 1 and the differentiation of very virulent and intermediate plus strains (vv) vs. intermediate and non-virulent strains (nv) in one reaction. An extensive list including information about the results of commercial vaccine products in pathotyping is provided with the kit.

Kylt® IBDV Pathotyping is validated for samples from chicken such as swab samples, tissues and organs and samples from cultural processes.

The Kit includes all needed reagents and relevant control reagents to prove the validity of the assay. The Positive Control helps monitor the efficiency of the assay. With the Negative Control any contamination of the kit components or used consumables can be ruled out. Further, the Internal Control is included to verify the overall Real-Time PCR run itself.

Kylt® Real-Time PCR setups can be used on all commercially available Real-Time PCR thermal cyclers detecting the fluorescent dyes FAM, HEX, Cy5 and TXR. Due to identical temperature profiles, all Kylt® qPCRs can be combined in one run as well as with other Kylt® RT-qPCRs. For detailed information please visit us at www.kylt.eu.



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

Order Information	Reactions	Article No.
Kylt® IBDV Pathotyping	100 / 25	31443/31444