



INFECTIOUS BURSAL DISEASE

DETECTION AND DIFFERENTIATION WITH KYLT® IBDV SCREENING AND IBDV GENOGROUP RT-qPCR PRODUCTS

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.

For IBDV two serotypes have been identified — serotype 1 and 2. While serotype 2 is nonpathogenic for chickens, serotype 1 strains are pathogenic 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.

Kylt® IBDV Screening enables the detection of Infectious Bursal Disease Virus including serotype 1 and 2.

Due to the characteristics of IBDV, it may be challenging to clearly assign the clinical and patho-morphological signs observed to the vaccine strain used or to a field challenge.

For this purpose, **KYL T®** developed three Real-Time RT-PCR kits for the detection of different IBDV genogroups:

Kylt® IBDV genogroup A1 (classical)

Kylt® IBDV genogroup A3 (very virulent)

Kylt® IBDV genogroup A7 (early Australian)

These products are intended to semi-quantitatively differentiate between the detection of vaccine vs. field strains in samples positively tested for IBDV.

Suitable samples for analysis are tissues and organs (e.g. bursa of fabricii, spleen, lymphoid tissue), swab samples of the aforementioned tissues and organs and samples from cultural processes.

DISCOVER MORE ABOUT KYLT® PRODUCTS FOR THE DETECTION & CHARACTERIZATION OF IBDV IN POULTRY SAMPLES

Product Name	Article number 100 reactions	Article number 25 reactions
Kylt® IBDV Screening	31044	31045
Kylt® IBDV genogroup A1 (classical)	31667	31668
Kylt® IBDV genogroup A3 (very virulent)	31601	31602
Kylt® IBDV genogroup A7 (early Australian)	31669	31670

THE FOLLOWING VACCINES* CAN BE DETECTED WITH KYLT® IBDV GENOGROUP PCR PRODUCTS:

Kylt® IBDV genogroup A1 (classical)	Genogroup
Avipro® IBD Xtreme	A1a
AviPro® Gumboro Vac	A1b
Avipro® Precise	A1b
Avishield IBD INT	A1b
Avishield IBD Plus	A1b
BUR 706	A1b
CEVAC® IBD L	A1a
CEVAC® TRANSMUNE IBD	A1a
Gallivac IBD	A1b
Innovax®-ND-IBD	A1a
HIPRAGUMBORO® CH/80 - CW	A1b
HIPRAGUMBORO® GM97 - G97	A1b
Nobilis® Gumboro D78	A1b
Nobilis® Gumboro 228E	A1b
Novamune®	A1b
Poulvac® Bursaplex®	A1a
Poulvac® Bursine 2	A1a
Vaxxitek™ HVT + IBD	A1a

*non-exhaustive list

Kylt® IBDV genogroup A3 (very virulent)	Genogroup
TAbic® MB (Phibro)	A3

Kylt® IBDV genogroup A7 (early Australian)	Genogroup
Poulvac® Bursa F	A7
Poulvac® Bursa Plus	A7

HIGH-QUALITY TESTED AND CERTIFIED, EASY-TO-USE PRODUCTS

KYLT® products are easy-to-use and compatible with almost every Real-Time PCR thermal cycler available on the market. **KYLT®** products are developed, validated, and manufactured in Germany, under rigorous protocols, and are put through tests in our daily high-throughput diagnostic routine laboratory, with samples from all over the world.

High-quality **KYLT®** processes and products are certified by ISO 9001:2015. Furthermore, selected kits are MicroVal® certified, approved by the Friedrich-Loeffler-Institute (FLI) or registered in several countries.

DIFFERENT PRODUCTS COMPLEMENT OUR PORTFOLIO

Different products and accessories, which are designed to support RNA and DNA extraction and purification, pathogen detection and characterization, complement the portfolio of solutions for detecting IBDV in poultry samples.

For further information, please visit www.kylt.eu or contact us by email: kylt-de@san-group.com

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