



# Avian Metapneumovirus

## Subtype-Specific Detection with Kylt® Real-Time RT-PCR

Avian Metapneumovirus (aMPV) can infect turkeys, chickens, pheasants and ducks of all age and may result in clinical respiratory or reproductive diseases named Turkey Rhinotracheitis (TR), Swollen Head Syndrome (SHS) or Avian Rhinotracheitis (ART). aMPV infections of poultry flocks can cause significant economical losses through respiratory infections in turkey, broilers and broiler breeders as well as a lowered egg production and poor egg quality in layers.

aMPV infections can be found in all major poultry production areas in the world. Out of the four different subgroups aMPV-A, -B, -C and -D the subtypes A and B account for the great majority of all aMPV infections in European poultry production. aMPV-C is found to be connected to problems in reproduction.

Infections in chickens can go unnoticed, as no clinical signs might be seen. However in both chickens and turkeys clinical signs include depression, respiratory signs and a drop in egg production as well as internal and external egg quality. Clinical signs are indicative of aMPV infections, but a definite diagnosis requires laboratory tests.

**Kylt® aMPV A&B** is provided as a multiplex reaction, so samples are tested in parallel for the presence of both subtypes. Together with the intergrated detection of synthetic RNA as an exogenous Internal Control RNA (IC-RNA) all criteria for an up-to-date methodology are met.

**Kylt® aMPV C** and **Kylt® aMPV D** both are provided as duplex reactions for detection of either aMPV subtype C or D and additionally of the exogenous IC-RNA.

| Order Information                  | Reactions  | Article No. |
|------------------------------------|------------|-------------|
| Kylt® aMPV A&B                     | 100 / 25   | 31072/31073 |
| Kylt® aMPV C                       | 100 / 25   | 31074/31075 |
| Kylt® aMPV D                       | 100 / 25   | 31076/31077 |
| Kylt® RNA / DNA Purification       | 5x 50 / 50 | 31314/31315 |
| Kylt® RNA/DNA Purification Kit HTP | 4x 96      | 31826       |

Kylt® qPCR products come ready-to-use and are designed for simple and reliable application in your lab. 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 such as required channels and applied temperature profiles for the individual products, please visit us at [www.kylt.eu](http://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