

BlackPCR™

MG(*Mycoplasma gallisepticum*) Differential Identification Kit

Product Information

Product code BMGK-48T

Component MG(*Mycoplasma gallisepticum*) differential identification kit

Storage Conditions & Stability

It is recommended to store this kit at -20°C and use it immediately after thawing. Repeated freezing and thawing can seriously affect results.

Exp. Date Marked separately on the Box

Contents of BlackCheck PCR PreMix Kit MG(*Mycoplasma gallisepticum*) differential identification kit 48 TEST (8strip x6, 15µl/tube)

Description

Mycoplasma gallisepticum is commonly involved in the polymicrobial "chronic respiratory disease" in broiler chickens, leading to increased condemnations in the processing plant. In layers and breeders, it is usually subclinical, but causes a reduction in the number of eggs laid per hen over the production cycle.

In chickens, this disease not only causes respiratory symptoms but also leads to reduced feed efficiency, lower weight gain, decreased egg production, and hatchability.

MG (*Mycoplasma gallicepticum*) Differential Identification Kit is a Detection type product that simultaneously rapidly and accurately identifies four causative genes of *Mycoplasma gallicepticum* that cause respiratory diseases in poultry. In addition to primers that specifically bind to *Mycoplasma gallisepticum* causative genes (a total of 4 types of vaccine strain and field strain), it contains all the components necessary for PCR execution, so it is possible to confirm the presence or absence of infection and identification results simply by adding template DNA and D.W.

Characteristics

- **Convenient:** It contains all the components necessary for PCR, so you can check for infection by adding template DNA and distilled water. In addition, since it is a liquid type, it is easy to mix after thawing.
- **Sensitivity:** It contains primers that specifically bind to the causative gene of *Mycoplasma gallisepticum*. Therefore, even if a small amount of template DNA is used, it reacts sensitively and is easy to observe the band.
- **Stability:** It is a frozen liquid type premix that provide long-term stability when stored frozen.

- Reproducibility: We provide only products verified through our regular and systematic QC system during product production for each lot.

Product Information

| No. | Contents | Composition | Amount |
|-----|---|--|-------------------------|
| 1 | MG(Mycoplasma gallisepticum) differential identification Premix | PCR Additive Materials MG Primer | 15µl x 48 tubes (tests) |
| 2 | *MG Positive Control | MG (MG field vaccine strains) ts-11 (MG wild-type strains) 6/85 (MG wild-type strains) F (MG wild-type strains) | 50µl(10pg/µl) x 1 tube |

Standard reaction protocol

1) Add the following components to a PCR tube.

MG(Mycoplasma gallisepticum) differential identification Kit:

| | |
|---|-------------|
| MG(Mycoplasma gallisepticum) differential identification Premix | 15.0 µl |
| DNA Template | x µl |
| Nuclease-Free Water | Up to 20 µl |
| Total Reaction Volume | 20 µl |

2) PCR cycling

| | | | |
|----------------------|-------|--------|----------|
| Initial Denaturation | 94 °C | 3 min | 1 cycle |
| Denature | 94 °C | 30 sec | |
| Anneal | 52 °C | 30 sec | 30 cycle |
| Extension | 72 °C | 1 min | |
| Final extension | 72 °C | 5 min | 1 cycle |

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