



# PrioCHECK MAP Ab 2.0 Plate Kit

High-throughput paratuberculosis test for cattle and small ruminants that combines speed and ease of use with a high diagnostic sensitivity and specificity

## Benefits

### Fast

- Test takes typically 80 minutes to complete
- Delivers clear-cut results that are either positive or negative, meaning that no retesting is required
- The only paratuberculosis test that does not include a gray zone or area of doubt

### Convenient

- Flexible test procedure that can be easily adapted for optimal workflow
- Preabsorption step can be performed anywhere between 1 minute and 24 hours
- 1-minute preabsorption step simplifies the test significantly, since it does not interrupt the ELISA assay

### Reliable

- The test is designed to deliver equal or better diagnostic sensitivity and specificity compared to another supplier's test
- Highly reproducible and robust test that enables clear interpretation of positive and negative test results
- Dynamic cutoff, based on percentage of positivity determined individually for each test plate—prevents preabsorption and conjugate incubation time variations from influencing test outcomes

## Easy to handle and automatable

- All components are stable for at least 8 hours at room temperature, making the test suitable for automation on robotic platforms. This allows optimization of the workflow in the laboratory, from low- to high-throughput testing, depending on the number of samples coming in.

## Performance

- The Applied Biosystems™ PrioCHECK™ MAP Ab 2.0 Plate Kit is the second generation of the first-approved Johne's test that has been successfully used for over two decades worldwide. The test is used for both cattle and small ruminants.
- The PrioCHECK MAP Ab 2.0 Plate Kit is a paratuberculosis test that combines speed and ease of use with a high diagnostic sensitivity and specificity. In an internal validation on fecal culture-confirmed positive and negative sera, it performed as well as or better than the other supplier's test.

## Paratuberculosis

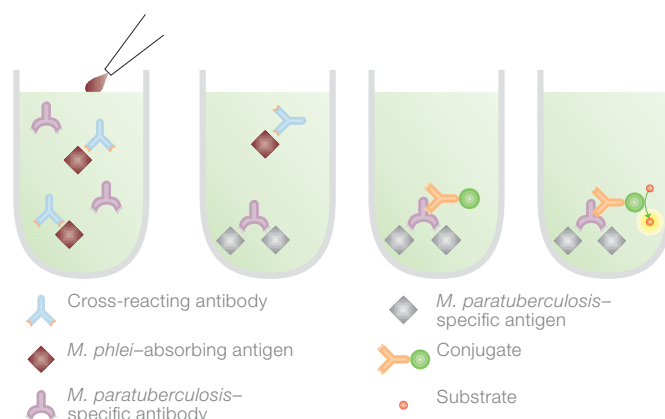
Johne's disease, or paratuberculosis, is a worldwide animal health problem mainly in beef and dairy herds. It is a chronic, debilitating enteritis of ruminants caused by infection with *Mycobacterium avium* subsp. *paratuberculosis* (MAP). The presence of the disease can have serious production-limiting consequences and may cause significant economic loss in herds through reduced milk yield and reproductivity, and increased culling.

The disease is difficult to diagnose because of long incubation times. The identification of subclinical disease in animals, which can shed the organism over long periods and thus be the source of infection for other members of the herd, is crucial for disease control.

The combined use of different diagnostic test methods, such as ELISA and real-time PCR tests, helps to identify and remove shedders earlier, thus helping to reduce the hazard of infection for other healthy animals.

Infected herds are identified by screening with a serological or milk-based assay. Prior to and during the onset of clinical disease, animals generally develop antibodies to MAP antigens. These antibodies are detected with the PrioCHECK MAP Ab 2.0 Plate Kit, a solid-phase indirect enzyme immunoassay.

## PrioCHECK MAP Ab 2.0 Plate Kit procedure



## Comparison of our diagnostic sensitivity and specificity

|                                  | Bovine serum samples           |                             | Ovine serum samples            |                             |
|----------------------------------|--------------------------------|-----------------------------|--------------------------------|-----------------------------|
|                                  | PrioCHECK MAP Ab 2.0 Plate Kit | Other supplier's ELISA test | PrioCHECK MAP Ab 2.0 Plate Kit | Other supplier's ELISA test |
| Sensitivity (%)                  | 71.8                           | 72.0                        | 86.1                           | 76.5                        |
| Specificity (%)                  | 100.0                          | 97.6                        | 99.4                           | 98.8                        |
| Agreement with fecal culture (%) | 91.2                           | 90.4                        | 96.0                           | 94.9                        |

## Ordering information

| Product                                   | Type          | Quantity                     | Cat. No. |
|---|---------------|------------------------------|----------|
| PrioCHECK MAP Ab 2.0 Plate Kit            | ELISA         | 5-plate kit (460 samples)    | 63325    |
|   | ELISA         | 30-plate kit (2,760 samples) | 63328    |
| <b>Related products</b>                   |               |                              |          |
| VetMAX <i>M. paratuberculosis</i> 2.0 Kit | Real-time PCR | 100 tests                    | MPTSA    |
| VetMAX MAP Screening Kit                  | Real-time PCR | 100 tests                    | 4468847  |
| VetMAX MAP IS900-F57 Kit                  | Real-time PCR | 100 tests                    | TMPT     |
| PrioCHECK Ruminant MAP Ab Serum Plate Kit | ELISA         | 480 tests (5 plates)         | VETPTRS5 |

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