

Focused on Veterinary Diagnostics



Specialists in Veterinary
Laboratory Supplies

FASTest® BEE DWV Strip

Single test to prevent winter losses
– **main cause DWV**

Fast test for the qualitative onsite detection of Deformed wing virus (DWV type A and B), in the bee/bee brood

Rapid direct virus detection

Year-round virus monitoring (especially in late summer)

On-site test for decision support of beekeeping required measures

Indirect conclusion about the potential virus vector *Varroa destructor* (vector for DWV)



- Simple and hygienic test procedure
- Test procedure with 5 bees
- Fast test interpretation after 10–15 minutes
- Validation based on RT-PCR/ELISA defined positive and negative samples at the Virological Institute of the VetMedUni Vienna (Head: Univ.Prof. Dr. Till Rügenapf)
- Storage at room temperature (15–25 °C), long shelf life
- Compact test box with 10, 25 or 50 tests



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Honeybees (*Apis mellifera*) are among the top 3 agricultural livestock world-wide by pollinating a wide range of crops and ornamental plants. This important ecosystem service is essential for sustainable, productive agriculture and for the maintenance of the non-agricultural ecosystem. Therefore, monitoring the health and vitality of honeybee colonies plays a crucial role. Besides numerous parasites and fungi (e. g. *Varroa destructor* and *Nosema* spp.), viruses (e. g., Deformed wing virus DWV, Acute bee paralysis virus ABPV, Sacbrood virus SBV) pose a great threat to the health and welfare of honeybees.

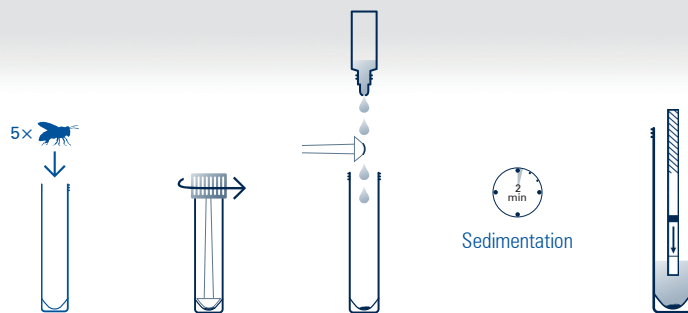
DWV (genotype A and B) is considered the most important representative of *Varroa*-associated viruses, is closely linked to winter mortality and is spread world-wide. Genotype B appears to be particularly well adapted to *Varroa*: the mite is not only considered a mechanical vector, but also forms a reservoir for the reproduction of DWV-B³.

DWV, triggered by stress (heavy infestation with *V. destructor*, lack of food, incorrect colony management), can cause characteristic disease symptoms (shrunk, flightless wings, reduced body size, discolouration in adult bees, incomplete brood nests, dead pupae).

Numerous studies indicate that there is a mutual relationship between the infestation level of *V. destructor* (parasitic mite Varroa) and certain viral diseases (especially DWV, ABPV, SBV). The *Varroa* mite serves as a virus reservoir and carrier of these viruses. This fatal combination is considered the main cause of winter losses! DWV shows the best correlation between the level of *Varroa* infestation and the virus load.

For the assessment and containment of these winter losses, the direct virus detection on-site using **FASTest® BEE DWV Strip** is a quick and easy diagnostic tool for the beekeeper. In the positive case, regardless of which virus test is positive, the *Varroa* control strategy (Varroa status) of the hive should be reviewed according to the guidelines of the respective country.

Test procedure



Test interpretation



POSITIVE

DWV



Test line and Control line are visible

NEGATIVE



Only the Control line appears

The combination test **FASTest® BEE 3T** can provide further information about the health of the hive. In addition to DWV, this triple test also tests for ABPV and SBV.



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