

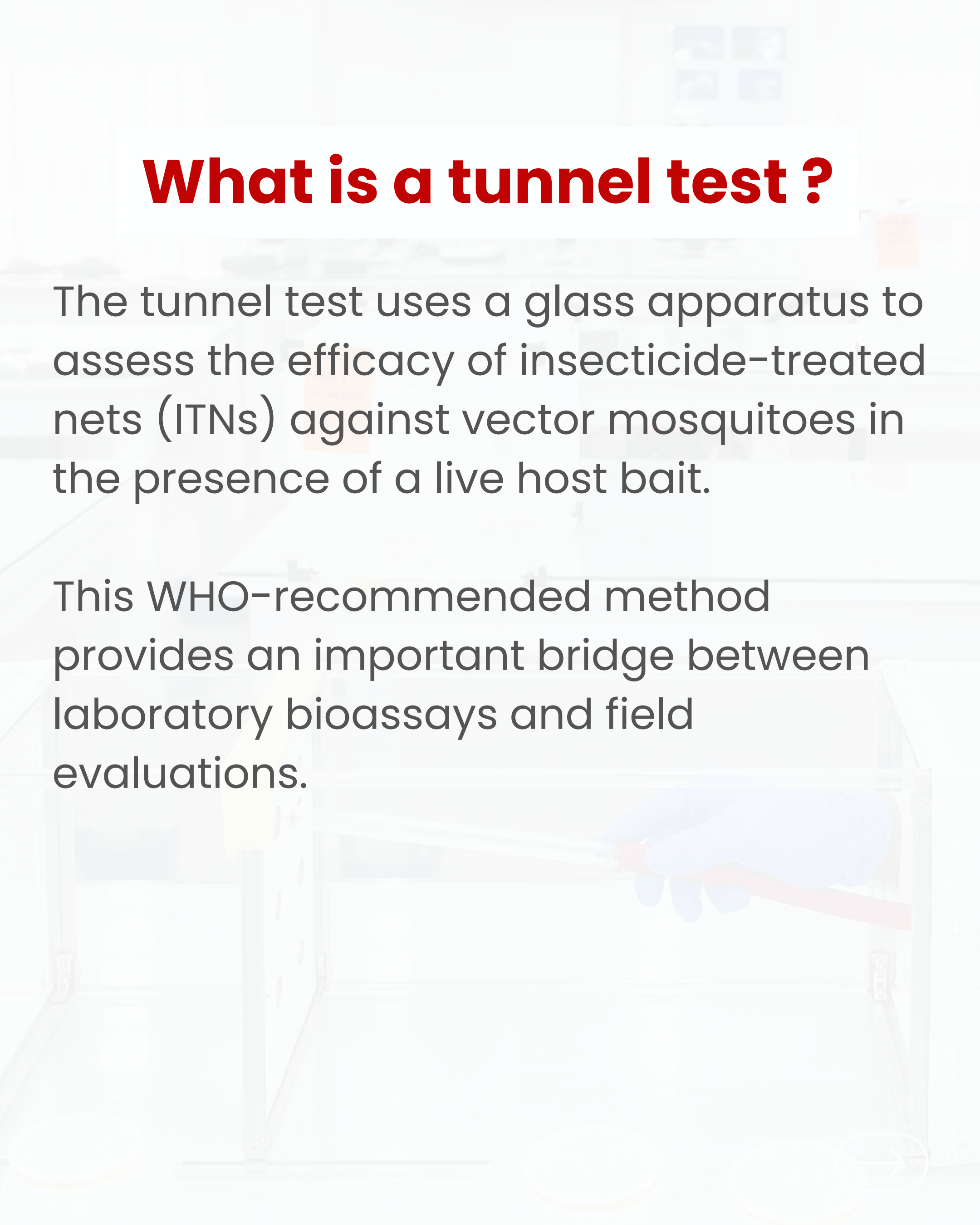


Discovering Tunnel Tests at AIRID

What is a tunnel test ?

The tunnel test uses a glass apparatus to assess the efficacy of insecticide-treated nets (ITNs) against vector mosquitoes in the presence of a live host bait.

This WHO-recommended method provides an important bridge between laboratory bioassays and field evaluations.





Simulating host-seeking behaviour

Mosquitoes are released into the tunnel at night, allowing them to express natural host-seeking behaviour in the presence of the bait and an ITN sample.



Measuring mosquito responses

The following morning, mosquitoes are collected and assessed to determine:

- Passage through the net
- Blood-feeding inhibition
- Immediate and delayed mortality
- Deterrent or repellent effects



Why tunnel tests matter ?

Tunnel tests provide a more behaviourally realistic assessment of ITN efficacy than conventional laboratory bioassays.

They show how mosquito–net interactions influence feeding success and survival.



Tunnel testing at AIRID

At AIRID, tunnel tests are routinely performed to support the development and screening of next-generation ITNs and to generate high-quality efficacy data for our research and industry partners.



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