

# Ralstonia solanacearum

## field diagnosis

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*Ralstonia solanacearum* is a bacterium which can cause major losses in many crops. The highly infectious pathogen is a quarantine organism in the EU.

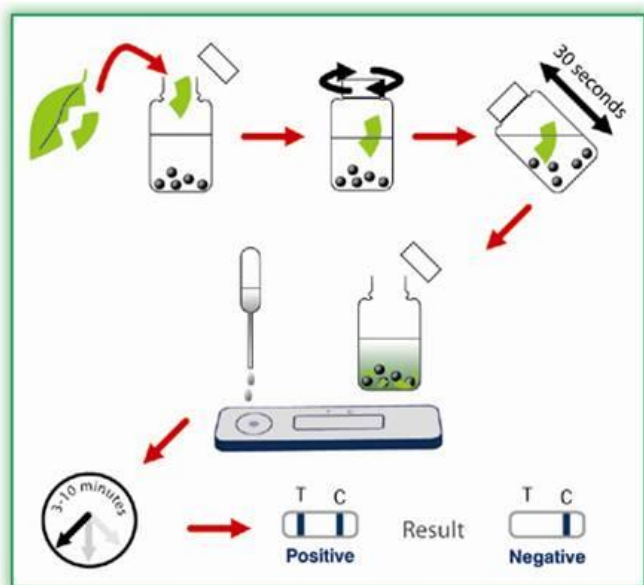
- **Common name:** bacterial wilt.
- **Symptoms:** wilting and browning, with presence of ooze in severe cases.
- **Host range:** wide, including *Casurina*, *Heliconia*, *Pelargonium*, potato, tomato, eggplant, capsicum sweet potato and ginger.
- **Test specificity:** specific to *R. solanacearum*, at least 13 different biovars of *R. solanacearum* produce positive results.
- **Test format:** lateral flow test based on a monoclonal antibody to *R. solanacearum*.

## Designed for on-site use

Pocket Diagnostic kits put disease diagnosis in the hands of growers, consultants and inspectors.

Sampling and testing can be carried out in a few minutes in the field or glasshouse. Pocket Diagnostic kits use a unique 'ball and bottle' extraction method which optimises separation of the pathogen from the plant tissues in no more than 60 seconds.

Results appear in the viewing window of the test device approximately 5 minutes after starting the test. The result is easy to read, allowing the user to make simple 'yes/no' interpretation.



## Use of the *Ralstonia* test

The *Ralstonia solanacearum* kit has been used extensively for the detection of the pathogen in potato and pelargonium crops. Testing is usually carried out on symptomatic plants where *Ralstonia* is suspected. Both routine monitoring and statutory testing can be carried out using the test kit.

Samples for testing can be taken from any part of the plant, at any stage during the production cycle.

## Storage and shelf life

Pocket Diagnostic kits should be stored at room temperature (up to 40°C). Tests are supplied with at least a 9 month shelf life.

## Quality standards

Pocket Diagnostic tests are manufactured under conditions which meet ISO9001 quality standards. Production and packaging are carried out in environmentally-controlled facilities, using the latest in automated manufacturing equipment.

## Test kit packs

*Ralstonia* tests are supplied in boxes of four. Each box contains 4 test devices, 4 extraction bottles, 4 pipettes and full instructions. Test devices are individually foil packaged, ensuring that quality of unused tests is not compromised. Pocket Diagnostic kits contain everything necessary to carry out testing.

### Further information and ordering

For further information, price list and order form visit [www.pocketdiagnostickits.com.au](http://www.pocketdiagnostickits.com.au) or contact John McDonald, Industry Development Manager, email: [nido@ngiq.asn.au](mailto:nido@ngiq.asn.au) or phone 07 3277 7900

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