

# The use of DNA probes to identify *Ditylenchus dipsaci*

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## SUMMARY

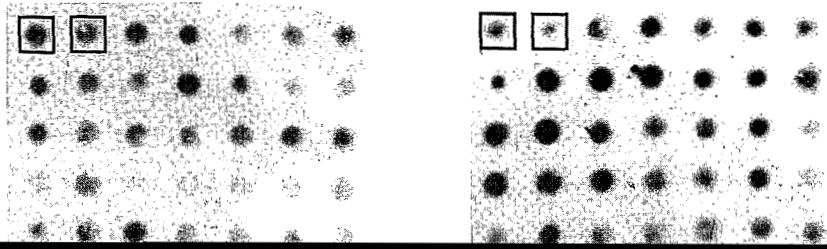
Probes based on genomic DNA from *Ditylenchus dipsaci* were used to discriminate this species from others of the genus *Ditylenchus*. Quantitative differences were revealed by colony hybridisation of clones with probes of radiolabelled DNA from *D. dipsaci* (oat race) and from *D. myceliophagus*. The DNA inserts were recovered from selected clones and used as probes against genomic DNA from four races of *D. dipsaci* plus three other species of *Ditylenchus*. Probes hybridised strongly with DNA from all races of *D. dipsaci* but not with that obtained from other species of *Ditylenchus*. Probes found in this work may have potential diagnostic use.

## RÉSUMÉ

### *Utilisation de sondes d'ADN pour identifier Ditylenchus dipsaci*

Des sondes constituées par l'ADN génomique de *Ditylenchus dipsaci* sont utilisées pour séparer cette espèce des autres espèces du genre *Ditylenchus*. Des différences quantitatives ont été mises en évidence par hybridation de colonies de clones avec des sondes

maintained in cultures at Rothamsted Experimental Station. 200 µg denatured salmon sperm DNA, 1 mM ethylene



work and for plant health regulations, for discrimination of *D. dipsaci* from other members of the genus. More work is required with field populations to establish that such probes are invariably reliable species-specific in-

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