

The Thermo Scientific™ Phire™ Plant Direct PCR Master Mix and Kit are designed to amplify DNA directly from plant samples. The following are examples of some of the species and sample types tested:

Leaves

- African violet (leaf and flower)
- *Arabidopsis thaliana*
- Barley
- Birch
- Carrot
- Chili pepper (*Capsicum* spp.)
- Citrus
- Common daisy (*Bellis perennis*)
- Cotton
- Dahlia
- *Dracaena*
- Eggplant
- *Eucalyptus*
- Fern
- *Ficus benjamina*
- Fir needles
- *Gerbera hybrida*
- *Ginkgo biloba*
- *Gossypium arboreum*
- *Gossypium barbadense*
- *Gossypium herbaceum*
- *Gossypium hirsutum*
- Grapefruit
- Grapevine
- *Kalanchoe*
- Kumquat
- *Laurus*
- Lilac (*Syringa*)
- Maize
- *Monstera deliciosa*
- Oak (frozen leaf)
- Oil palm
- Okra
- Olive
- *Oxalis triangularis*
- *Pelargonium* (Geranium, leaf and flower)
- *Peperomia*
- Petunia (leaf and flower)
- Pine needles
- *Plectranthus* spp.
- Poinsettia (*Euphorbia pulcherrima*)
- Prayer plant (*Maranta leuconeura*)
- Rapeseed
- Rhododendron (leaf and flower)
- Rice
- Rubber plant
- *Scindapsus pictus*
- Sesame
- Snake plant (*Sansevieria trifasciata*)
- *Spathiphyllum* spp.
- Spider plant (*Chlorophytum comosum*)
- Sugarcane
- Sunflower
- Tobacco
- Tomato
- Violet (*Viola* spp., leaf and flower)
- Wheat
- Wild strawberry (*Fragaria vesca*)

Leaves/flowers on FTA™ cards

- Alfalfa
- Bean (leaf)
- Dahlia, purple, pink, red, yellow (flowers)
- Maize (husk)
- Pea (leaf)
- Snapdragon (flower)
- Tobacco
- Tomato (leaf)
- Red pepper
- Rocket
- Sunflower
- Tomato
- Grapevine
- Rapeseed
- Soya bean
- Tobacco
- Wheat

Seeds

- *Arabidopsis thaliana*
- Apple
- Brussels sprouts
- *Callistephus chinensis*
- Carrot
- Dill
- Grapevine
- Maize
- Paprika
- Pattypan squash
- *Physalis peruviana*
- Pumpkin
- Rapeseed
- Tobacco
- Tomato
- Zucchini

Fungi

- *Acremonium* spp. (from fungal culture)
- *Agaricus* spp.
- *Cenococcum*
- *Fusarium graminearum*
- *Heterobasidion annosum* (from fungal culture)
- *Magnaporthe* spp. (from rice leaf)
- *Mucor plumbeus* (from fungal culture)
- Mycorrhizae (from spruce roots)
- *Oidiodendron griseum* (from fungal culture)
- *Paxillus involutus* (from fungal culture)
- *Penicillium* spp. (from fungal culture)
- *Phialophora finlandia*
- *Piloderma fallax*

Bacteria

- Gram positive
- Gram negative

Other

- *Chlamydomonas* (cells)
- Maize roots
- *Marchantia* spp.
- Moss (*Physcomitrella patens*)
- *Picea abies* (callus)
- Rapeseed roots
- *Saccharomyces* spp.

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