Plant RNA extraction

The **InviTrap® Spin Plant RNA Mini Kit** is ideal for easy and quick isolation of total RNA from different plant samples and filamentous fungi. The genomic DNA is removed without an enzymatic digestion step. Due to the high purity, the isolated total RNA is ready to use for various downstream applications (RT-real-time PCR, Northern Blotting etc.)

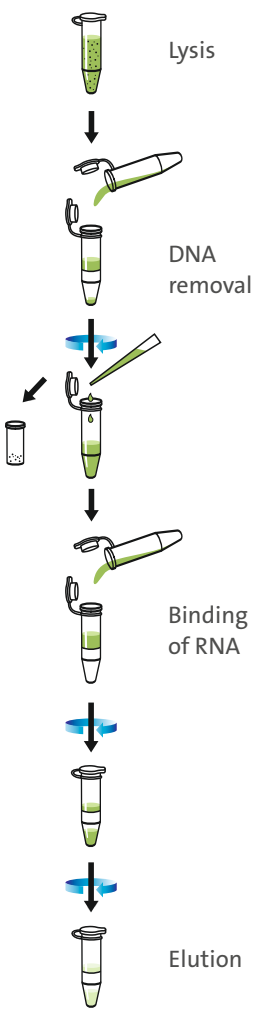
Product characteristics

- **Starting material:** 10 – 100 mg fresh or frozen plant tissue, up to 10^7 plant or fungal cells
- **Average yield:** up to 80 µg
- **Preparation time:** approx. 30 min

Benefits

- Pure RNA without DNase digestion - selective genomic DNA removal during lysis step
- Two sample-specific lysis buffers included - contaminants, such as polysaccharides, or polyphenols are removed
- Up to 80 µg pure RNA from plant material or plant cells, co-purification of viral RNA from phytopathogens

Workflow



Ordering information

PRODUCT	PACKAGE SIZE	CATALOGUE NUMBER
InviTrap® Spin Plant RNA Mini Kit	50 purifications 250 purifications	1064100300 1064100400

stratec molecular

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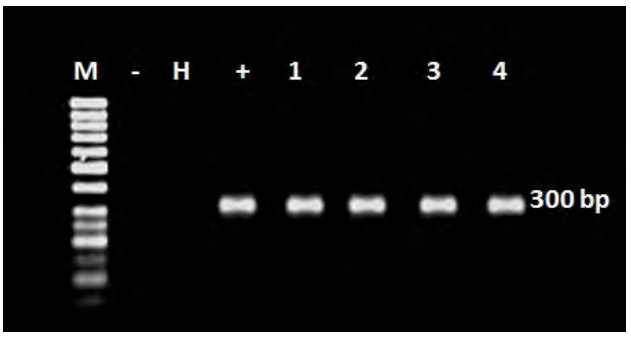
APPLICATION EXAMPLE

Excellent RNA performance in downstream RT-PCR assay



Total RNA was isolated from 100 mg of fresh leaves or young shoots of orange, mandarin and grapefruit plants using the InviTrap® Spin Plant RNA Mini Kit. RNA was eluted in 50 µl of elution buffer and amplified in a RT-PCR assay using viroid specific CVd-IIb primers.
Lane M, 50 bp DNA ladder; -, water; H, healthy citrus; +, positive control; 1-4, tested citrus samples

Survey and molecular detection of two citrus viroids affecting commercial citrus orchards in the Northern part of Sudan. Mohamed Yousif Adam Abubaker and Siddig Mohamed Elhassan. Agric. Biol. J. N. Am., 2010, 1(5): 930-937

Selected references

Two Activities of Long-Chain Acyl-Coenzyme A Synthetase Are Involved in Lipid Trafficking between the Endoplasmic Reticulum and the Plastid in Arabidopsis.
Jessen D, Roth C, Wiermer M, Fulda M; Plant Physiol. 2015 Feb;167(2):351-66

The histone deacetylase inhibitor trichostatin a promotes totipotency in the male gametophyte.
Li H, Soriano M, Cordewener J, Muiño JM, Riksen T, Fukuoka H, Angenent GC, Boutilier K; Plant Cell. 2014 Jan;26(1):195-209

Two Herbivore-Induced Cytochrome P450 Enzymes CYP79D6 and CYP79D7 Catalyze the Formation of Volatile Aldoximes Involved in Poplar Defense.
Irmisch S, Clavijo McCormick A, Boeckler GA, Schmidt A, Reichelt M, Schneider B, Block K, Schnitzler JP, Gershenzon J, Unsicker SB, Köllner TG; Plant Cell. 2013 Nov;25(11):4737-54

Related products

PRODUCT	PACKAGE SIZE	CATALOGUE NUMBER
InviTrap® RNA Plant HTS 96 Kit / C	4 x 96 purifications 24 x 96 purifications	7064300300 7064300400
Invisorb® Spin Plant Mini Kit	50 purifications 250 purifications	1037100200 1037100300

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