

RNA isolation from tissue

The InviTrap® Spin Tissue RNA Mini Kit simplifies total RNA purification from a variety of tissue types (e.g. muscle, liver, heart, brain, lung, kidney) and FFPE tissue samples. The genomic DNA is removed without an enzymatic digestion step. RNases are inactivated to prevent RNA degradation. The isolated RNA is ready to use for a variety of downstream applications like RT-PCR, Northern Blotting and array technologies.

Product characteristics

- **Starting material:** up to 20 mg tissue; FFPE tissue
- **Average yield:** up to 80 µg
- **Preparation time:** approx. 10 min after lysis

Benefits

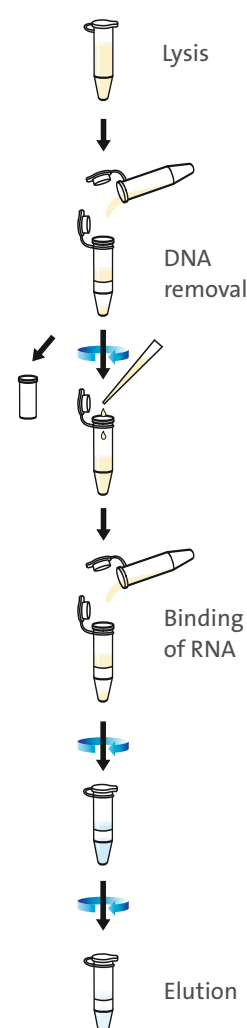
- Pure RNA without DNase digestion - high yields of small RNAs
- Zirconia beads are used for efficient lysis of tissue material
- Optimized protocols for different tissue types - incl. additional protocols for paraffin removal, RNA Cleanup from TRIzol® phases, protein/RNA extraction
- For In Vitro Diagnostic Use (CE-IVD)*

*) Compliance with EU Directive 98/79/EC on in vitro medical devices (Not for in vitro diagnostic use in countries where the EU Directive 98/79/EC on in vitro medical devices is not recognized.)

Ordering information

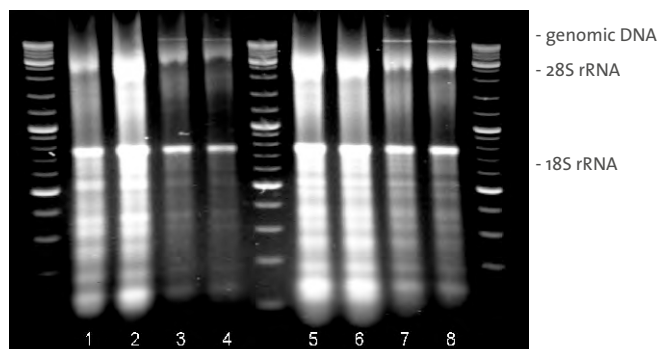
PRODUCT	PACKAGE SIZE	CATALOGUE NUMBER
InviTrap® Spin Tissue RNA Mini Kit	50 purifications	1062100200
	250 purifications	1062100300

Workflow



APPLICATION EXAMPLE

RNA isolation from different tissue material



Total RNA was isolated from 20 mg kidney and colon tissue using the InviTrap® Spin Tissue RNA Mini Kit and the provided Zirconia Beads and a commercial kit from competitor Q. Total RNA was eluted in 50 µl elution buffer. 3 µl of the eluates were analyzed on a 1.2 % agarose gel.

Lanes 1-2: Kidney tissue - InviTrap® Kit

Lanes 3-4: Kidney tissue - Kit Q

Lanes 5-6: Colon tissue - InviTrap® Kit

Lanes 7-8: Colon tissue - Kit Q

Selected references

Dietary Pectin-Derived Acidic Oligosaccharides Improve the Pulmonary Bacterial Clearance of *Pseudomonas aeruginosa* Lung Infection in Mice by Modulating Intestinal Microbiota and Immunity.

Bernard H, Desseyn JL, Bartke N, Kleinjans L, Stahl B, Belzer C, Knol J, Gottrand F, Husson MO. J Infect Dis. 2015 Jan 1;211(1):156-65

First-in-Human Phase I Study of the Liposomal RNA Interference Therapeutic Atu027 in Patients With Advanced Solid Tumors.

Schultheis B, Strumberg D, Santel A, Vank C, Gebhardt F, Keil O, Lange C, Giese K, Kaufmann J, Khan M, Dreves J. J Clin Oncol. 2014 Dec 20;32(36):4141-8

Molecular Dynamics and Social Regulation of Context-Dependent Plasticity in the Circadian Clockwork of the Honey Bee.

Shemesh Y, Eban-Rothschild A, Cohen M, Bloch G. J Neurosci. 2010 Sep 15;30(37):12517-25

Related products

PRODUCT	PACKAGE SIZE	CATALOGUE NUMBER
InviTrap® RNA Tissue HTS 96 Kit/ C	4 x 96 purifications	7062300300
	24 x 96 purifications	7062300400
InviTrap® Spin Universal RNA Mini Kit	50 purifications	1060100200
	250 purifications	1060100300