

RNA isolation from cells

The **InviTrap® Spin Cell RNA Mini Kit** is a powerful tool for the isolation of pure total RNA from human or animal cells, bacteria and yeasts in a convenient spin filter format. 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 different downstream applications like RT-PCR, Northern Blotting and array technologies.

Product characteristics

- **Starting material:** up to 10^7 human or animal cells; up to 10^9 bacteria cells; up to 5×10^7 yeast cells
- **Average yield:** up to 150 µg
- **Preparation time:** approx. 20 min

Benefits

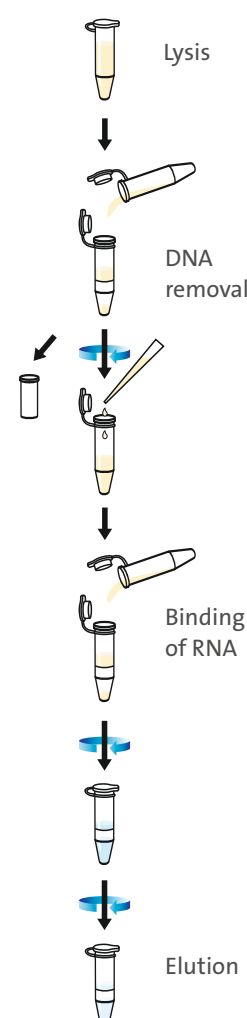
- Pure RNA without DNase digestion - selective genomic DNA removal during lysis step
- Optimized protocols for different cell types - incl. additional protocols for RNA Cleanup from TRIzol® phases and enzymatic reactions, protein/RNA extraction
- For In Vitro Diagnostic Use (CE-IVD)*

*) 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

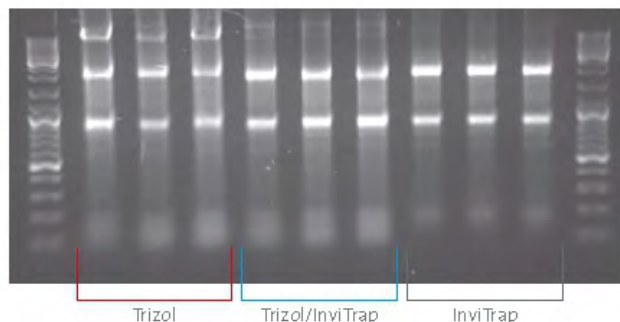
PRODUCT	PACKAGE SIZE	CATALOGUE NUMBER
InviTrap® Spin Cell RNA Mini Kit	50 purifications	1061100200
	250 purifications	1061100300

Workflow



APPLICATION EXAMPLE

RNA Cleanup from TRIzol®



Total RNA was isolated from 1×10^6 Jurkat cells using TRIzol® reagent and the InviTrap® Spin Cell RNA Mini Kit. In comparison the RNA was pre-purified using TRIzol® and subsequently purified using the InviTrap® kit according to the RNA cleanup protocol. For analysis 4 µl of the eluted RNA were loaded onto a 1.2% denaturing agarose gel.

Selected references

Transcriptional expression of myelin basic protein in oligodendrocytes depends on functional syntaxin 4: a potential correlation with autocrine signaling.

Bijlard M, Klunder B, de Jonge JC, Nomden A, Tyagi S, de Vries H, Hoekstra D, Baron W. Mol Cell Biol. 2015 Feb 15;35(4):675-87

Effect of bodily fluids from honey bee (*Apis mellifera*) larvae on growth and genome-wide transcriptional response of the causal agent of American Foulbrood disease (*Paenibacillus larvae*).

De Smet L, De Koker D, Hawley AK, Foster LJ, De Vos P, de Graaf DC. PLoS One. 2014 Feb 20;9(2):e89175

Differential protein occupancy profiling of the mRNA transcriptome.

Schueler M, Munschauer M, Gregersen LH, Finzel A, Loewer A, Chen W, Landthaler M, Dieterich C. Genome Biol. 2014 Jan 13;15(1):R15

Related products

PRODUCT	PACKAGE SIZE	CATALOGUE NUMBER
InviTrap® RNA Cell HTS 96 Kit/ C	4 x 96 purifications	7061300300
	24 x 96 purifications	7061300400
InviTrap® Spin Universal RNA Mini Kit	50 purifications	1060100200
	250 purifications	1060100300
InviMag® Universal RNA Mini Kit/ KF96	1 x 96 purifications	7460300100
	5 x 96 purifications	7460300200