

Extraction of viral DNA/RNA and bacterial DNA

The RTP® Pathogen Kit contains the pre-filled Extraction Tubes with lyophilized lysis components for simultaneous isolation of high quality bacterial DNA, viral DNA and RNA from a diverse range of starting materials. After lysis, the samples are transferred to a spin column-based procedure with a PCR template preparation time of 20 minutes. The „One-Step-Lysis“ simplifies handling and reduces pipetting steps.

Product characteristics

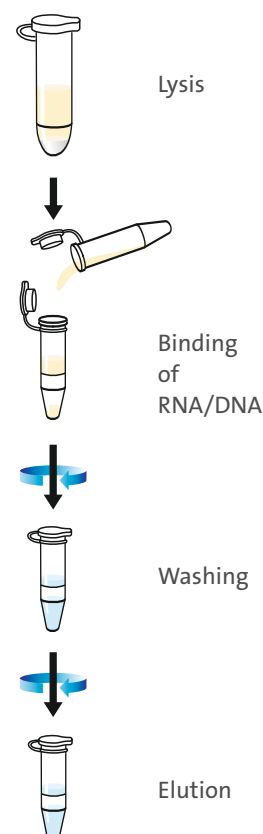
- **Starting material:** up to 200 µl serum, plasma, cell-free body fluids, cell culture supernatant; up to 400 µl rinse liquid from swabs; up to 10 mg tissue samples; up to 10⁹ bacteria cells; stool suspension; sputum
- **Average yield:** depending on bacterial & viral titer and starting material
- **Preparation time:** approx. 20 min

Benefits

- Simple „One-Step-Lysis“ in the pre-filled Extraction Tube with lyophilized lysis components (lysis buffer, Lysozyme, Proteinase K), Carrier RNA); Extraction Tubes can be stored at room temperature
- Sensitive and accurate results
- 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.)

Workflow

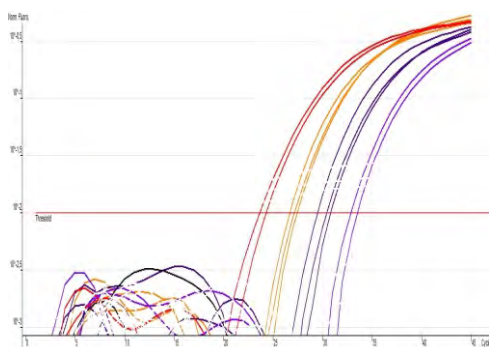


Ordering information

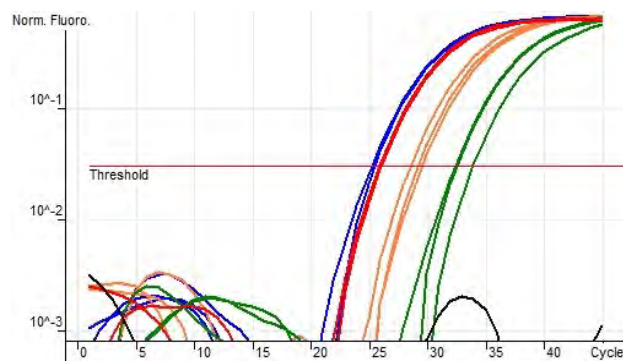
PRODUCT	PACKAGE SIZE	CATALOGUE NUMBER
RTP® Pathogen Kit	50 purifications	1040500200
	250 purifications	1040500300

APPLICATION EXAMPLE

Sensitive detection of viral DNA and RNA



Real-time PCR results - hCMV dilution series:
undiluted (orange), 10⁻¹ (purple), 10⁻² (violet), positive control (red), negative control (black).



Real-time PCR results - Influenza virus dilution series:
undiluted (blue), 10⁻¹ (orange), 10⁻² (green), positive control (red), negative control (black).

Selected references

Flavivirus genome detected in *Mus* and *Apodemus* species sampled in illegal waste sites.

D Duh, E Varljen-Buzan, U Kunej, and S Hasic. Parasit Vectors. 2014; 7(Suppl 1): P13

Identification of an avian group A rotavirus containing a novel VP4 gene with a close relationship to those of mammalian rotaviruses.

Trojanar E, Sachsenröder J, Twardziok S, Reetz J, Otto PH, Johne R. J Gen Virol. 2013 Jan;94(Pt 1):136-42

Simultaneous identification of DNA and RNA viruses present in pig faeces using process-controlled deep sequencing.

Sachsenröder J, Twardziok S, Hammerl JA, Janczyk P, Wrede P, Hertwig S, Johne R. PLoS One. 2012;7(4):e34631

Related products

PRODUCT	PACKAGE SIZE	CATALOGUE NUMBER
InviMag® Pathogen Kit /KF96	1 x 96 purifications	7444050100
	5 x 96 purifications	7444050200
InviMag® Pathogen Kit/ KFmL	75 purifications	2445110200
	300 purifications	2445110400
RTP® DNA/RNA Virus Mini Kit	50 purifications	1040100200
	250 purifications	1040100300