

Extraction of bacterial DNA

The RTP® Bacteria DNA Mini Kit contains the pre-filled Extraction Tubes with lyophilized lysis components for genomic DNA isolation from different bacteria species from a broad range of starting materials. After lysis, the samples are transferred to a spin column-based procedure with a PCR template preparation time of 25 minutes. The „One-Step-Lysis“ simplifies handling and reduces pipetting steps.

Product characteristics

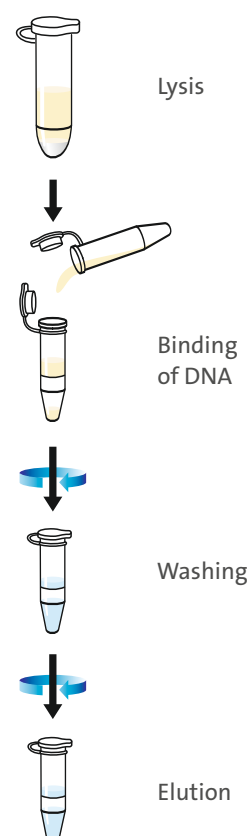
- **Starting material:** up to 10⁹ bacterial cells; up to 400 µl rinse liquid from swabs; up to 10 mg tissue samples or FFPE tissue; 15 - 50 ml urine; stool suspension, sputum
- **Average yield:** depending on bacterial titer and starting material
- **Preparation time:** approx. 25 min (plus lysis time)

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

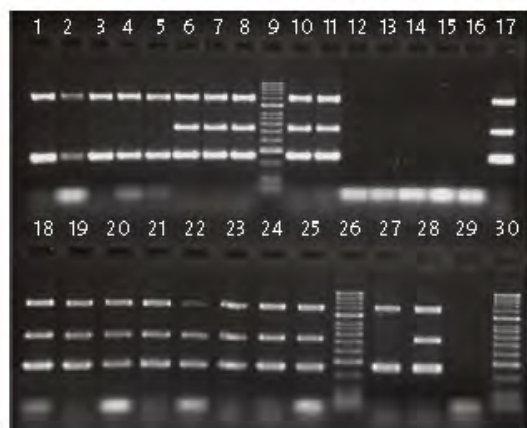


Ordering information

PRODUCT	PACKAGE SIZE	CATALOGUE NUMBER
RTP® Bacteria DNA Mini Kit	50 purifications	1033200200
	250 purifications	1033200300

APPLICATION EXAMPLE

Identification of MRSA isolates



Identification of MRSA isolates by multiplex-PCR amplification of three target gene sequences (23S rDNA, nuc, mec). Bacterial genomic DNA was isolated using RTP® Bacteria DNA Mini Kit according to the standard protocol. Amplificates were analyzed on a 2.0 % agarose gel.

Data kindly provided by A. Fetsch, Federal Institute for Risk Assessment (BfR), National Reference Laboratory for coagulase positive staphylococci including *Staphylococcus aureus*, Berlin, Germany.

Selected references

Characterization of *trh2* Harboring *Vibrio parahaemolyticus* Strains Isolated in Germany.

Bechlars S, Jäckel C, Diescher S, Wüstenhagen DA, Kubick S, Dieckmann R, Strauch E. PLoS One. 2015 Mar 23;10(3):e0118559

Metagenomics Analysis Using Next Generation Sequencing of Vaginal Samples from Community Practices in the US.

Budd WT, Harwich M, Bostwick GD, Meyers G, Dilts J, et al. (2015) MOJ Cell Sci Rep 2(2): 00020

Relationship of children's salivary microbiota with their caries status: a pyrosequencing study.

Gomar-Vercher S, Cabrera-Rubio R, Mira A, Montiel-Company JM, Almerich-Silla JM. Clin Oral Investig. 2014 Dec;18(9):2087-94

Related products

PRODUCT	PACKAGE SIZE	CATALOGUE NUMBER
RTP® Mycobacteria Kit	50 purifications	1033220200
	250 purifications	1033220300
Invisorb® Universal Bacteria HTS 96 Kit/ C	4 x 96 purifications	7033300300
	24 x 96 purifications	7033300400
InviMag® Bacteria DNA Mini Kit/ KFmL	75 purifications	2433150200
	300 purifications	2433150400