

Materials List for:

# Identification of Rare Bacterial Pathogens by 16S rRNA Gene Sequencing and MALDI-TOF MS

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## Materials

Name	Company	Catalog Number	Comments
CHROMASOLV, HPLC grade water, 1 L	Sigma-Aldrich Chemie, München, Germany	270733	
Tissue Lyser LT	Qiagen, Hilden, Germany	85600	Oscillating homogenizer
Glass-beads 1.0 mm	VWR International, Darmstadt, Germany	412-2917	
Thermomixer 5436	Eppendorf, Hamburg, Germany	2050-100-05	
QIAamp DNA Mini Kit (250)	Qiagen, Hilden, Germany	51306	
Taq PCR Core Kit (1,000 U)	Qiagen, Hilden, Germany	201225	
Forward Primer TPU1 (5'-AGA GTT TGA TCM TGG CTC AG-3')	biomers.net, Ulm, Germany	-	
Reverse Primer RTU4 (5'-TAC CAG GGT ATC TAA TCC TGT T-3')	biomers.net, Ulm, Germany	-	
Mastercycler	Eppendorf, Hamburg, Germany	-	Thermocycler
Reaction tube 1.5 ml	SARSTEDT, Nümbrecht, Germany	72,692	
Reaction tube 2 ml	SARSTEDT, Nümbrecht, Germany	72,693,005	
PCR 8er-CapStrips	Biozym Scientific, Hessisch Oldendorf, Germany	711040X	
PCR 8er-SoftStrips	Biozym Scientific, Hessisch Oldendorf, Germany	711030X	
Sharp R-ZV11	Sharp Electronics, Hamburg, Germany	-	Microwave
Titriplex III (EDTA Na <sub>2</sub> -salt dehydrate; 1 kg)	Merck, Darmstadt, Germany	1084211000	
SeaKem LE Agarose	Biozym Scientific, Hessisch Oldendorf, Germany	849006	
SmartLadder SF - 100 to 1,000 bp	Eurogentec, Lüttich, Belgium	MW-1800-04	
Bromophenol blue (25 g)	Sigma-Aldrich Chemie, München, Germany	B0126	
Xylene cyanol FF (10 g)	Sigma-Aldrich Chemie, München, Germany	X4126	
ComPhor L Maxi	Biozym, Hessisch Oldendorf, Germany	-	
Ethidium bromide solution 1% (10 ml)	Carl Roth, Karlsruhe, Germany	2218.1	
Gel Doc 2000	Bio-Rad Laboratories, München, Germany	-	Gel-documentation system

ExoSAP-IT (500 reactions)	Affymetrix UK, Wooburn Green, High Wycombe, United Kingdom	78201	
Buffer (10x) with EDTA	Life Technologies, Darmstadt, Germany	402824	
BigDye Terminator Kit v1.1	Life Technologies, Darmstadt, Germany	4337450	
Hi-Di formamide (25 ml)	Life Technologies, Darmstadt, Germany	4311320	
DyeEx 2.0 Spin Kit (250)	Qiagen, Hilden, Germany	63206	
3130 Genetic Analyzer	Life Technologies, Darmstadt, Germany	-	Sequencer
MicroAmp optical 96-well reaction plate with barcode	Life Technologies, Darmstadt, Germany	4306737	
3130 Genetic Analyzer, plate base 96-well	Life Technologies, Darmstadt, Germany	4317237	
3130 Genetic Analyzer, plate retainer 96-well	Life Technologies, Darmstadt, Germany	4317241	
3130 Genetic Analyzer, well plate septa	Life Technologies, Darmstadt, Germany	4315933	
3130 Genetic Analyzer, POP-7 Polymer, 7 ml	Life Technologies, Darmstadt, Germany	4352759	
3130 Genetic Analyzer, 4-Capillary Array, 50 cm	Life Technologies, Darmstadt, Germany	4333466	
Sequencing Analysis Software 5.4	Life Technologies, Darmstadt, Germany	-	
microflex	Bruker Daltonik, Bremen, Germany	-	Our mMIS
VITEK MS	bioMérieux, Nürtingen, Germany		2 <sup>nd</sup> mMIS
flexControl 3.4	Bruker Daltonik, Bremen, Germany	-	Device control software
Biotyper Realtime Classification 3.1 (RTC)	Bruker Daltonik, Bremen, Germany	-	Analysis software
$\alpha$ -cyano-4-hydroxycinnamic acid, HCCA, 1 g	Bruker Daltonik, Bremen, Germany	201344	
Peptide Calibration Standard II	Bruker Daltonik, Bremen, Germany	222570	
MSP 96 target polished steel	Bruker Daltonik, Bremen, Germany	8224989	
peqGREEN	peqlab	37-5010	
MALDI Biotyper Galaxy	Bruker Daltonik, Bremen, Germany	Part No. 1836007	Automated sample preparation system
Vitek 2	bioMérieux, Nürtingen, Germany		Our aMIS
MicroScan	Beckman Coulter, Krefeld, Germany		2 <sup>nd</sup> aMIS
BD Phoenix™ Automated Microbiology System	BD, Heidelberg, Germany		3 <sup>rd</sup> aMIS
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> Rosenbach (ATCC® 25923™)	American Type Culture Collection (ATCC), LGC Standards, Molsheim, France		Positive control for PCR