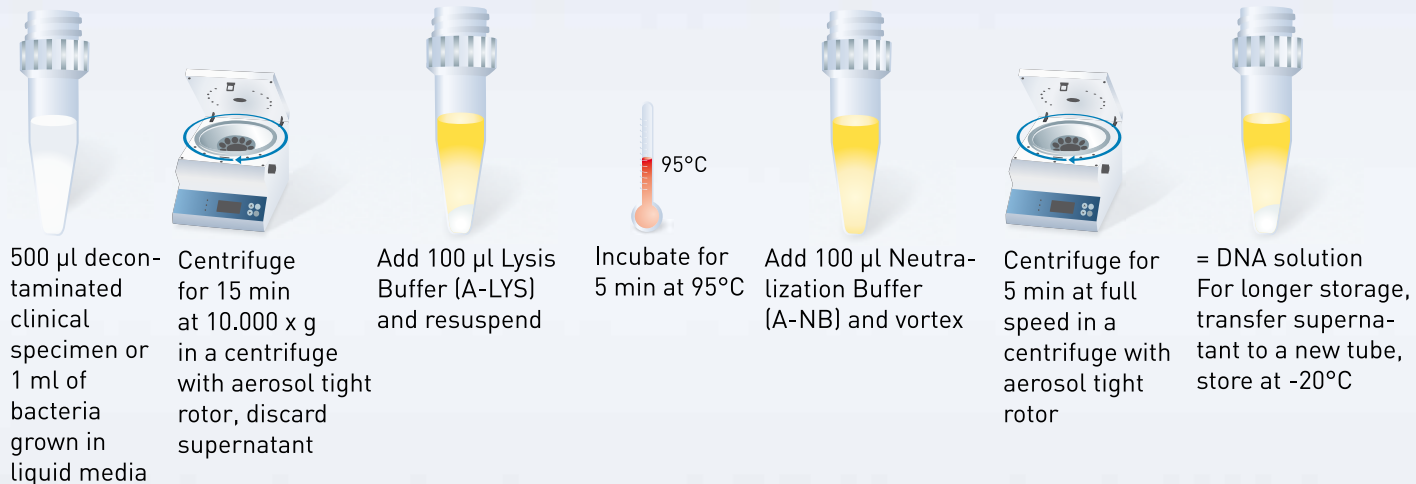


# GenoType MTBDRplus 2.0

## DNA Extraction Area, BSL 2/BSL 3 Laboratory

- First put on new gloves, then lab coat
- Decontaminate work area with 1% freshly diluted sodium hypochlorite solution
- Use fresh aliquot of molecular biology grade water for all steps

### 1. a) DNA extraction with GenoLyse®



- When using bacteria grown on solid media, collect with inoculation loop, suspend in 100 µl A-LYS and incubate for 5 min at 95°C. Then continue with **GenoLyse®** procedure

### Or alternatively

### 1. b) DNA extraction with GenoXtract instrument



- Automated DNA extraction from patient specimens using **GenoXtract** in combination with **GXT DNA/RNA Extraction Kit**

- Decontaminate pipettes, racks and work area with 1% freshly prepared sodium hypochlorite solution

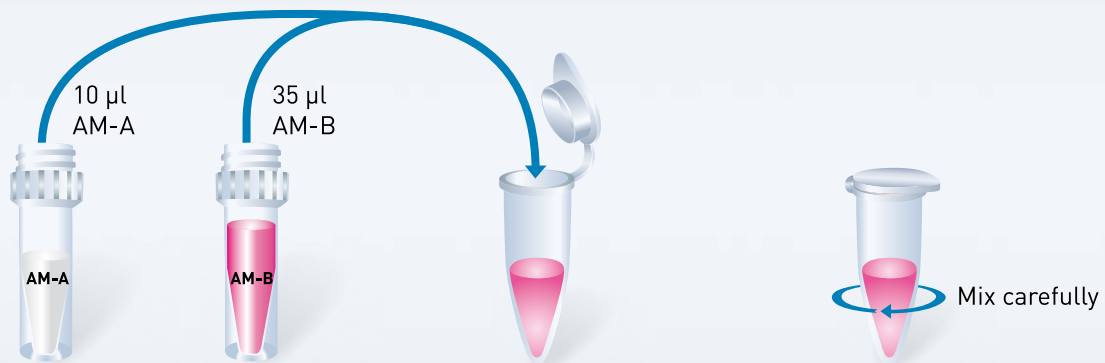
# GenoType MTBDR*plus* 2.0

## Pre-PCR Area, BSL 1 Laboratory

- First put on new gloves, then lab coat
- Decontaminate work area with freshly diluted 1% sodium hypochlorite solution
- Use new PCR tubes
- Close all vials in between pipetting steps to avoid pipetting and handling above open vials
- Whenever opening new AM-A or AM-B, aliquot and store at -20°C

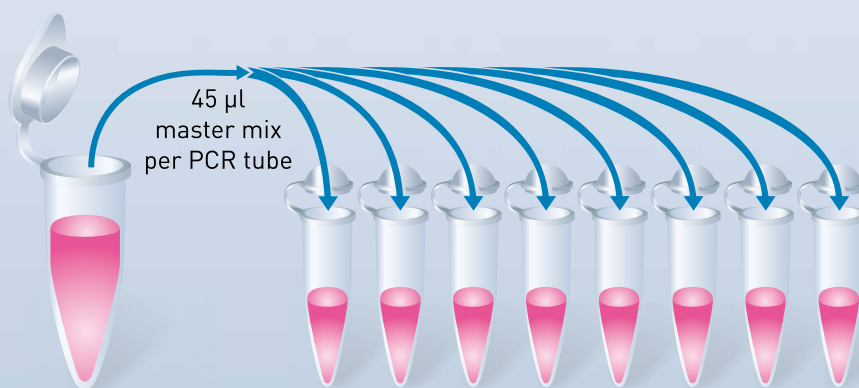
### 1. Amplification mix per sample

- Determine the number of samples to be analyzed plus control samples



- After thawing, mix AM-A and AM-B carefully
- Master mix needs to be prepared freshly
- Do not vortex master mix

### 2. Master mix aliquots

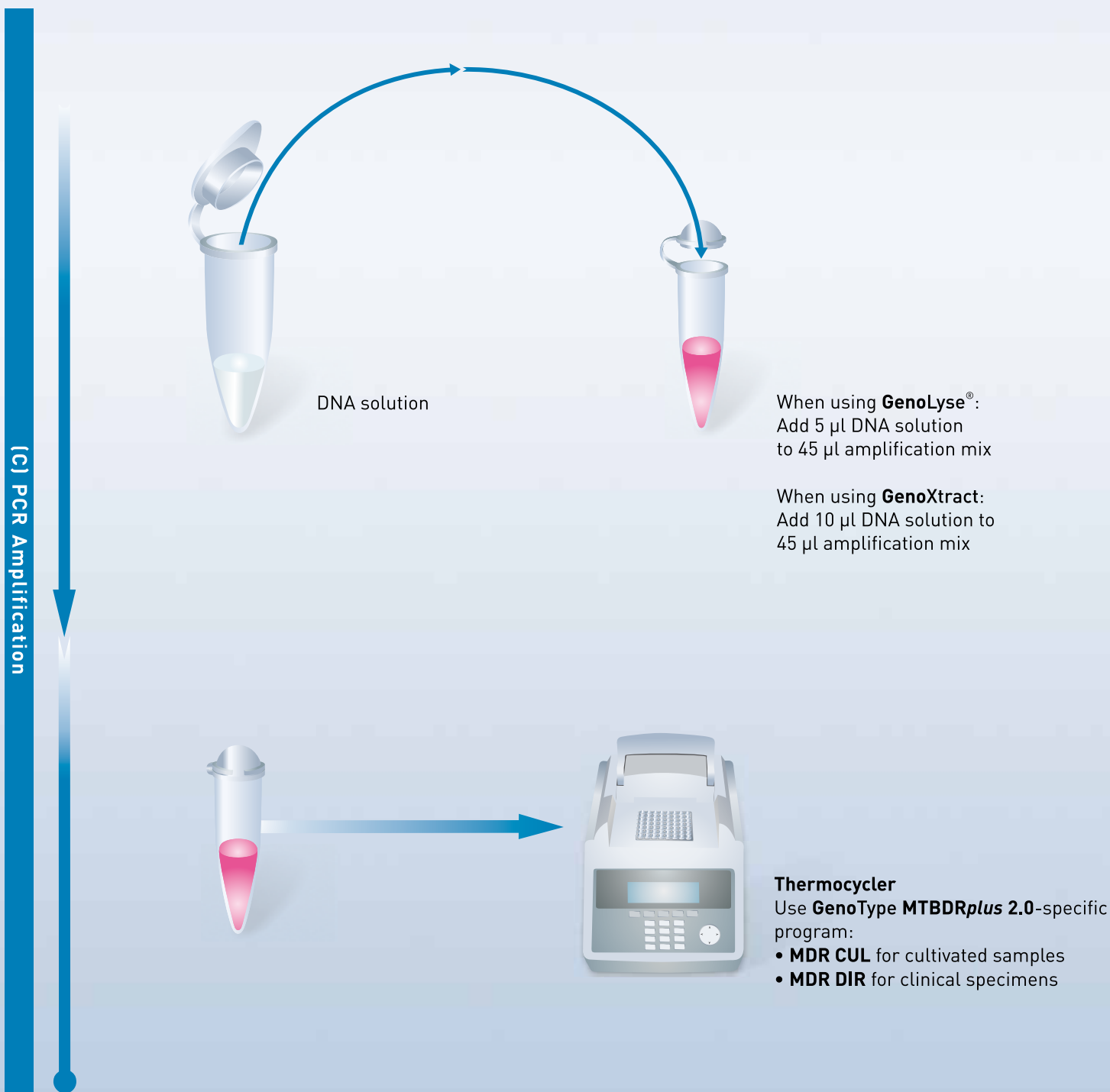


- Decontaminate pipettes, racks and work area with 1% freshly prepared sodium hypochlorite solution

# GenoType MTBDRplus 2.0

## PCR Area, BSL 1 Laboratory

- First put on new gloves, then lab coat

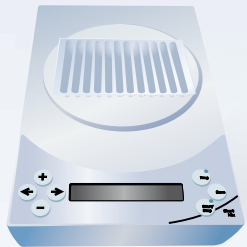


- Decontaminate pipettes, racks and work area with 1% freshly prepared sodium hypochlorite solution

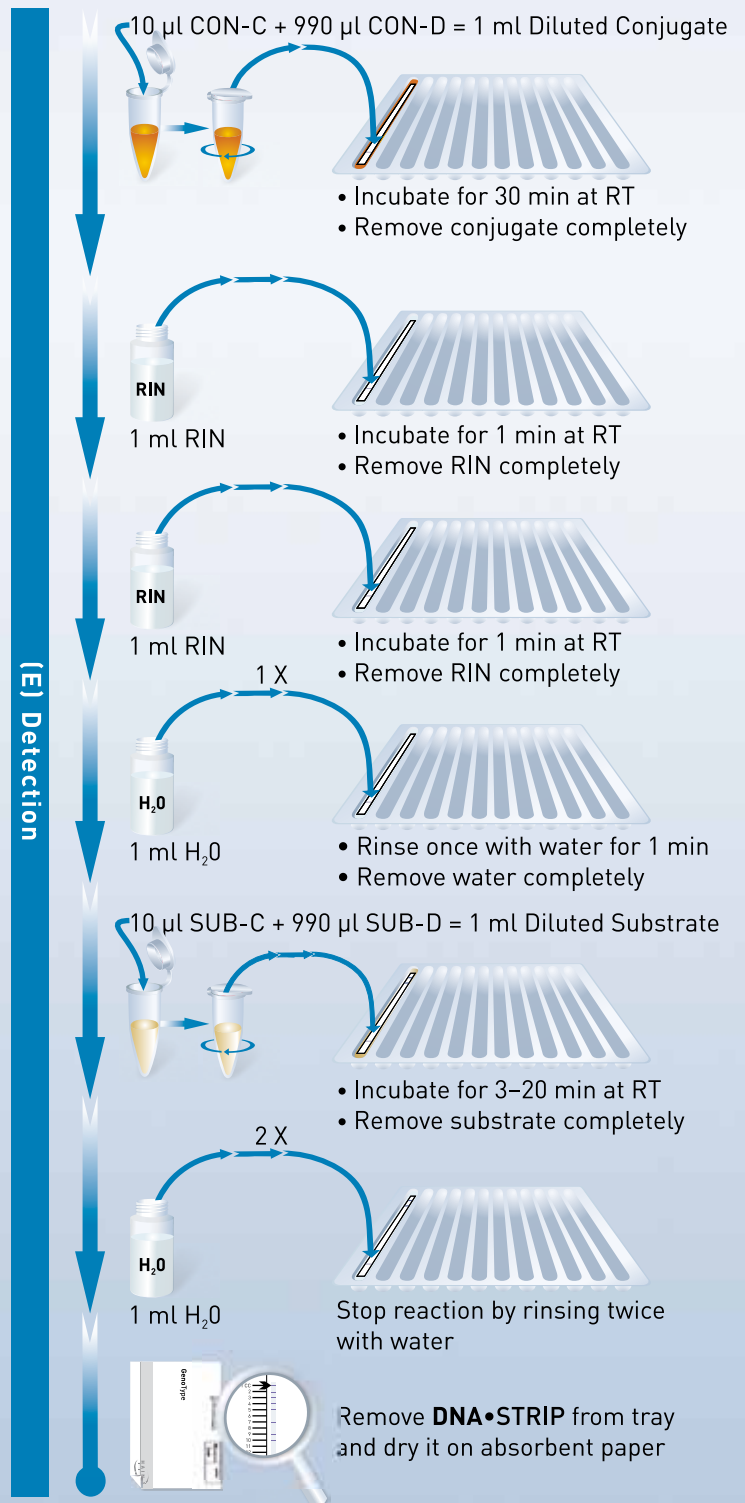
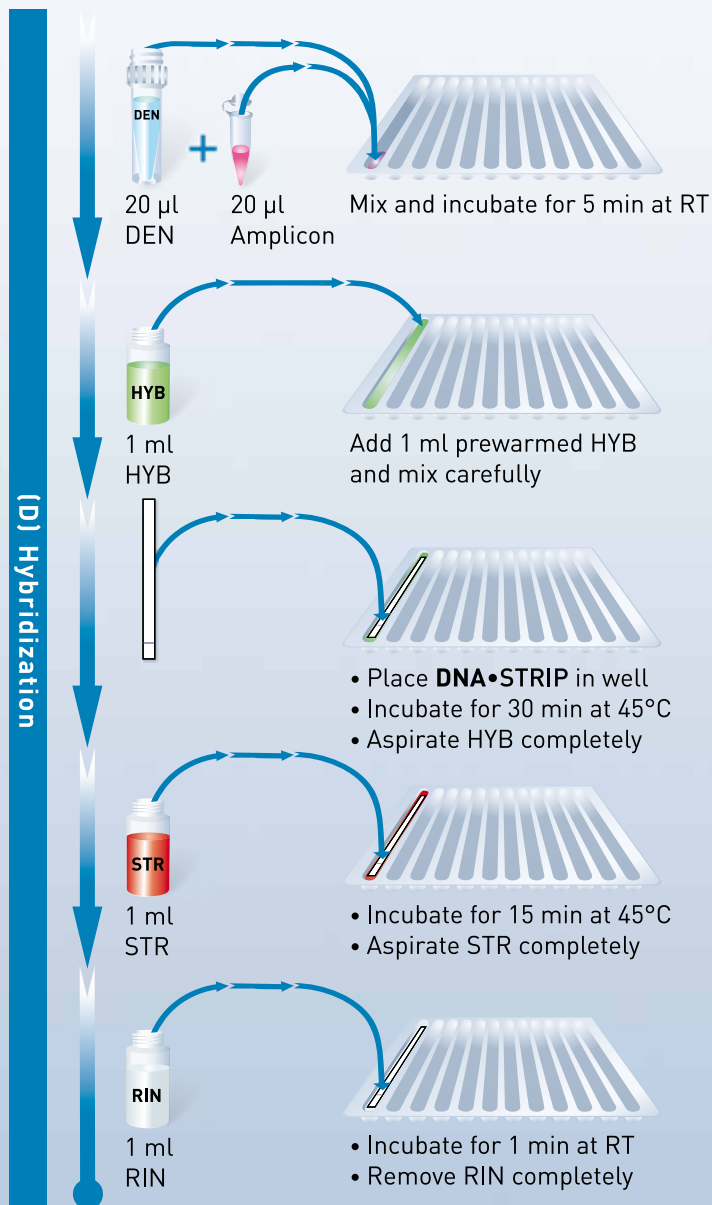
# GenoType MTBDR<sub>plus</sub> 2.0

## Hybridization Area, BSL 1 Laboratory

- First put on new gloves, then lab coat
- Decontaminate work area with 1% freshly diluted sodium hypochlorite solution
- Prewarm HYB and STR at 45°C to dissolve all precipitates
- Prewarm RIN and distilled water to room temperature
- Freshly dilute CON-C and SUB-C 1:100 in the respective dilution buffer and protect from light



Use **TwinCubator** with program for the hybridization and detection procedure



- Decontaminate pipettes, racks and work area with 1% freshly prepared sodium hypochlorite solution