VisionArray® Arrays for DNA analysis

The VisionArray MYCO PreCise Master Mix 2.0 is intended to be used to amplify and biotinylate specific sections of the ITS region, respectively IS6110 region, of the Mycobacterial genomes by PCR. For the detection procedure the VisionArray Detection Kit should be used in combination with the corresponding VisionArray MYCO Chip 2.0. The automated analysis has to be performed with a VisionArray Analysis Package.

1) Preparatory Steps

- Determine the amount of required PCR reactions

Reagents	
(1) MYCO PreCise MasterMix 2.0	15 µl
(2) Sample DNA	2.5-5 µl
(3) H_2O	ad 25 µl
Total Volume	**25 µl**

- Thaw the MYCO PreCise Master Mix 2.0 (1).
- Aliquot the PreCise Master Mix (1) into DNA/DNAse free PCR vials
- Pipette the sample DNA (2) into the PreCise Master Mix (1)
- For the negative control add 10 µl DNA/DNase free water
- Transfer the samples into a prewarmed and calibrated thermal cycler

VisionArray MYCO PCR

VisionArray® Arrays for DNA analysis

2) PCR

- The amplification protocol has been established for the Biometra TProfessional Thermocycler System

Time	Temperature	Repeats	Step
10 min	25 °C	1x	Uracil-DNA Glycosylase Incubation
10 min	95 °C	1x	Activation: HotStart *Taq* Polymerase Deactivation: Uracil-DNA Glycosylase
20 s	95 °C		Denaturation
90 s	60 °C	35x	Annealing and Elongation
60 s	95 °C	1x	Denaturation
∞	10 °C	1x	
Ramping time: Δ 5 °C/s			

Once PCR has finished, the product should be stored at -16...-22 °C

This is a condensed protocol for the VisionArray MYCO PreCise Master Mix 2.0 should not replace the instruction for use!

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VisionArray MYCO PCR