

## VisionArray® Arrays for DNA analysis

The VisionArray HPV PreCise Master Mix is intended to be used to amplify and biotinylate specific sections of the L1 region of the HPV genomes by PCR. For the detection procedure the VisionArray Detection Kit should be used in combination with the corresponding VisionArray HPV Chip. The automated analysis has to be performed with a VisionArray Analysis Package.

### 1) Preparatory Steps

- Determine the number of required PCR reactions (n)

#### Reagents

(1) HPV PreCise Master Mix	15 µl
(2) Sample DNA	2.5-5 µl
(3) H <sub>2</sub> O	ad 25 µl
<b>Total Volume</b>	<b>25 µl</b>

- Thaw the HPV PreCise Master Mix (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 HPV PCR

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### 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 <i>Taq</i> Polymerase Deactivation: Uracil-DNA Glycosylase
20 s	95 °C		Denaturation
30 s	55 °C	10x	Annealing
80 s	60 °C		Elongation
20 s	95 °C		Denaturation
30 s	38 °C	35x	Annealing
80 s	60 °C		Elongation
1 min	95 °C	1x	Denaturation
∞	8 °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 HPV PreCise Master Mix and should not replace the instruction for use!

VisionArray HPV PCR