

VisionArray[®] Arrays for DNA analysis

Genotyping of Human Papillomavirus

VisionArray® HPV

Your Complete Solution from DNA Extraction to Analysis!

Simultaneous Detection of 41 HPV Types

High Sensitivity – Easy to Handle

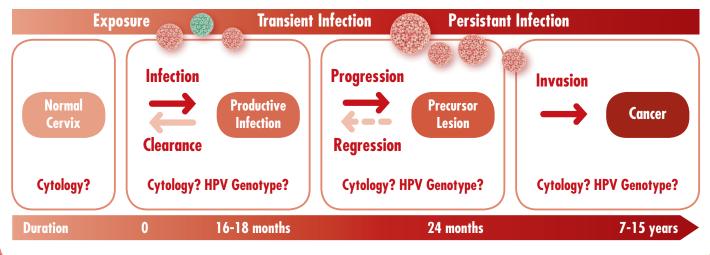


Importance of HPV Testing

The human papillomavirus (HPV) has been conclusively identified as the major risk factor for cervical cancer. It is the third most common cancer in women worldwide, with an estimated number of 530,000 new cases and 280,000 deaths each year. Over the last years the relevance of HPV in the history of oropharyngeal cancers has become more and more important which is indicated by a dramatically risen number of cancers of the oral cavity and pharynx linked to HPV.

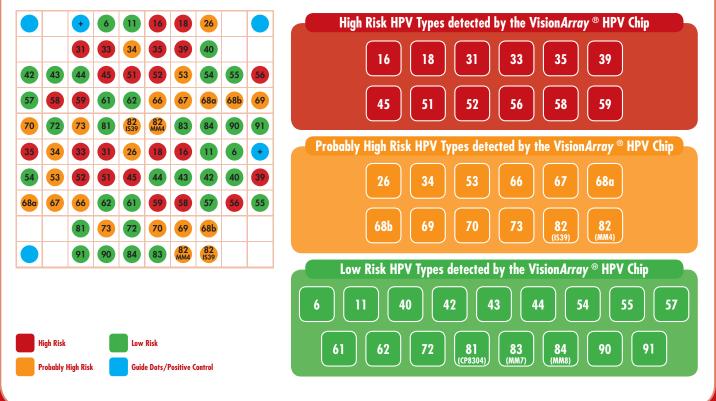
Cervical Cancer Progression

Initial HPV infection requires virion integration into the basal epithelial cells. Whereas most HPV infections are transient and are cleared by the immune system, infection with HPV high risk types may lead to cancer when infection persists.



VisionArray[®] HPV Chip – Fast and Reliable Genotyping

The VisionArray [®] HPV Chip 1.0 is intended to be used with the VisionArray [®] Analysis Package for the qualitative detection and genotyping of PCR amplificates of 41 clinically relevant HPV genotypes.



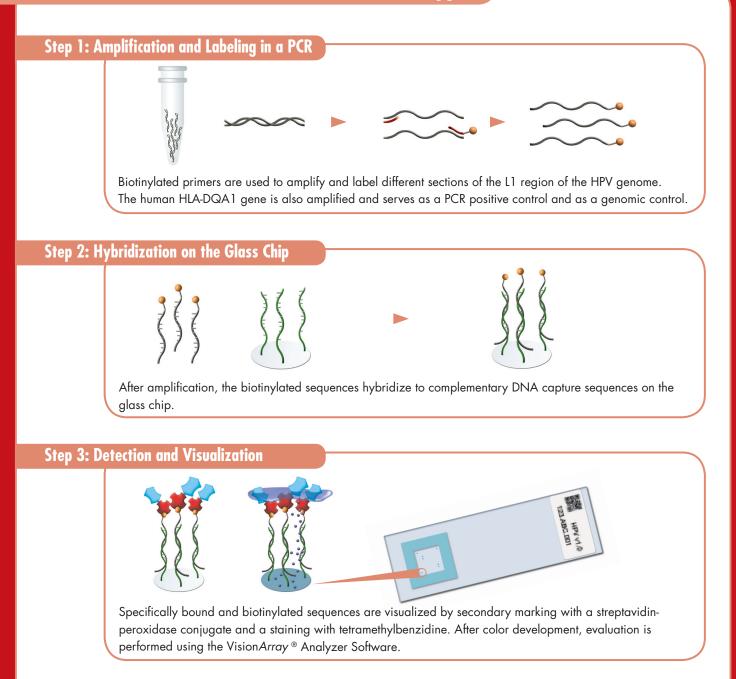
References: Boumba LM, et al. [2014] BMC Public Health 14: 1320 Colombo N, et al. [2012] Ann Oncol 23 Suppl 7: vii27-32 Grow JM, et al. [2012] Nature 488: S2-S3 JARC [2012] Biological Agents. IARC Monogr Eval Carcinog Risks Hum, 100B: 1-441 Poljak M, et al. [2016] J Clin Virol 76 Suppl 1: S3-S13 http://globocan.iarc.fr

1. Sample Collection

For the detection of HPV genotypes with the VisionArray [®] HPV system the following raw material can be used for DNA extraction:

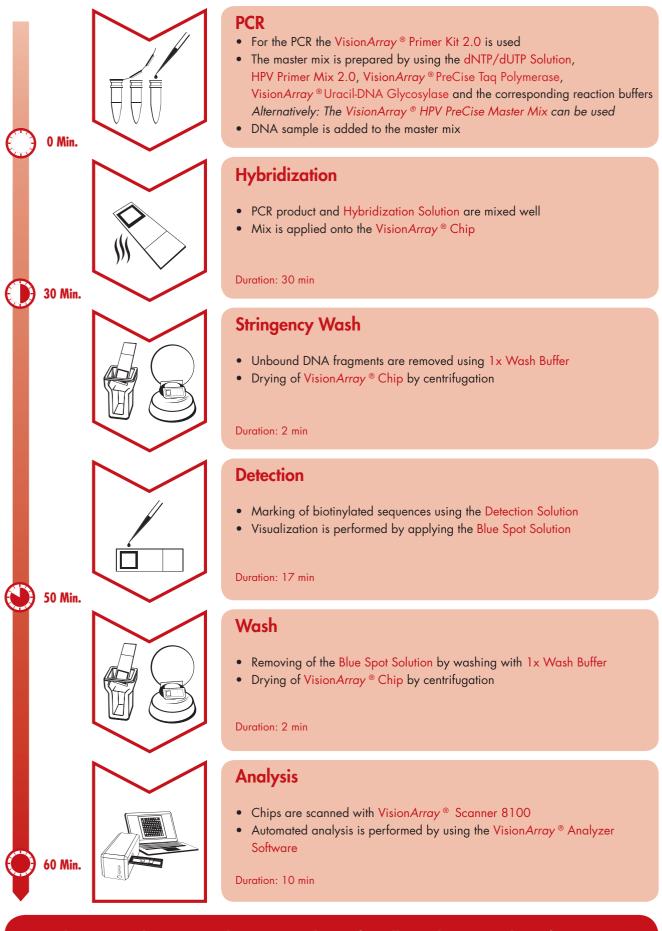
- Formalin-fixed, paraffin-embedded (FFPE) tissue samples
- Cervical swab/brush specimen
- Liquid based cytology specimen (ThinPrep®)

2. Detection & Differentiation of 41 HPV Types



3. Workflow Schedule

This is a condensed protocol for the VisionArray® method and should not replace the instruction for use!



Quick & easy 1 hour protocol • Automated user-friendly evaluation within a few minutes

HPV Tests in Comparison

Assay	Genotyping	Co-infection	No. of CE-IVD HPV Types	Sensitivity* (copies/reaction)
Anyplex™II HPV28 Detection			28	≥ 50
Cervista [®] HPV HR	_	_	14	≥ 1.250
CLART® HPV (3, 4)			35	≥ 10
cobas® HPV Test	HPV 16 + 18	HPV 16 + 18	14	\geq 150 copies/ml
digene® HC2 HPV DNA Test	_	_	18	≥ 3100
INNO-LiPA® HPV Genotyping Extra II			32	≥ 20
VisionArray [®]	\checkmark	\checkmark	41	≥ 50

* Sensitivity data are according to the respective instruction for use

Vision*Array*[®] – At a Glance

- Simultaneous genotyping of 41 different HPV types all certified for *in vitro* diagnostic use
- All capture sequences and positive controls are set up on the Vision*Array* [®] Chip as duplicates
- High sensitivity and specificity
- Quick & easy 1 hour protocol
- Automated evaluation using the VisionArray [®] Analyzer Software simple visualization & quick analysis in just a few minutes

t 0616_A001-OC01-99	×		2
an-ID: 616 se No.: 95	Name: Doe, Jane Date of Birth: 22/07/1960	ate of Scan: 18/09/2015 10:51 hip File: VisionArray® HPV 1.0	1
P P P P Zoom: 13%	Overlay On/Off 🕑	 ✓ Hybridisation/Grid ✓ Positive Control ✓ Duplicates 	
		Target Intensity 1 Intensity 2 HV16 128,04 96,10% HV18 23,31 175,0% H94,676d 133,24 000,0% Por. 113,41 85,11%	
		Time Stamp Activity Dr 18/09/2015 11-08-22 Scan created * 18/09/2015 11-08-22 Automatic Analysis *	1
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VisionArray[®] Arrays for DNA analysis

Vision*Array*® HPV Chips

	Prod. No.	Product	Tests
VisionAnnyHPV Chip 1.0	VA-0001-10	Vision <i>Array</i> HPV Chip 1.0 CE IVD Ind. 10 pieces	10
	VA-0001-50	VisionArray HPV Chip 1.0 CE IVD Ind. 5x 10 pieces	50
	VA-0002-10	Vision <i>Array</i> HPV High Risk Chip 1.0 CE IVD Ind. 10 pieces	10
(iese)	VA-0002-50	Vision <i>Array</i> HPV High Risk Chip 1.0 CE IVD Ind. 5x 10 pieces	50

VisionArray® DNA Extraction, PCR, and Detection

	Prod. No.	Product	Tests
	VI-0001-50	Vision Array FFPE DNA Extraction Kit Incl. Paraffin Dissolver; Tissue Lysis Buffer; Decrosslink Buffer; DNA Wash Buffer; Proteinase K; Proteinase K Buffer; Elution Buffer; Columns; Collection Tubes	50
	VI-0002-50	VisionArray Cytology DNA Extraction Kit Incl. Pre-Lysis Buffer; Cell Lysis Buffer; DNA Wash Buffer; Proteinase K; Proteinase K Buffer; Elution Buffer; Columns; Collection Tubes	50
	Prod. No.	Product	Tests
ZYTO ZYTO HV Vian ATTAUT IMP Ma ATTAUT IMP Ma ATTAUT IMP Ma ATTAUT IMP Ma ATTAUT IMP ATT	VP-0001-50	VisionArray HPV Primer Kit 2.0 CE VD NEW Higher Sensitivities Incl. HPV Primer Mix 2.0; dNTP/dUTP Solution	50
	VE-0001-100	Vision <i>Array</i> PreCise Taq DNA Polymerase CE IVD Incl. Vision <i>Array</i> PreCise Taq DNA Polymerase; Reaction Buffer, 10x; PreCise MgCl ₂ , 25 mM	100
	VE-0002-100	Vision <i>Array</i> Uracil-DNA Glycosylase CE IVD Incl. Vision <i>Array</i> Uracil- DNA Glycosylase (UDG); UDG Reaction Buffer, 10x	100
	ES-0007-50	VisionArray HPV PreCise Master Mix CE IVD INIW Containing HPV Primer Mix 2.0; dMTP/dUTP Solution; VisionArray PreCise Toq DNA Polymerase; Reaction Buffer, 10x; PreCise MgCl ₂ , 25 mK; VisionArray Uracil-DNA Glycosylase	50
	Prod. No.	Product	Tests
	VK-0003-50	VisionArray Detection Kit CE IVD Incl. Hybridization Solution, 1 ml; Detection Solution, 5 ml; Blue Spot Solution, 5 ml; 100x Wash Buffer, 250 ml	50
	E-4051-1	Mini Slide Centrifuge	

VisionArray® Analysis Package



Prod. No. Product E-4060-1 VisionArray Analysis Package CE IVD Incl. Scanner 8100; Slide Holder; Hand Scanner; PC with preinstalled VisionArray Analyzer Software; USB-Hub: External Hard Drive; Computer Mouse

CE IVD only available in certain countries. All other countries research use only! Please contact your local dealer for more information.

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