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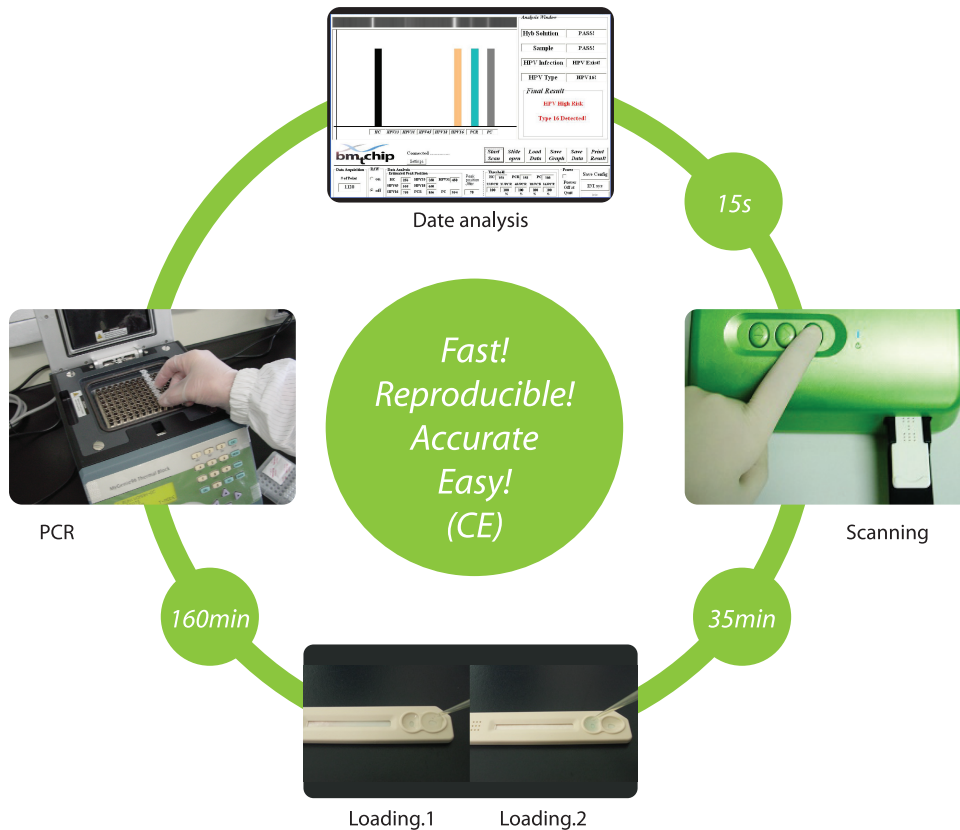
BMT-Br-03-2010-R0

BMT HPV
Genotyping 9G
Membrane
KIT

Biometrix Technology, Inc



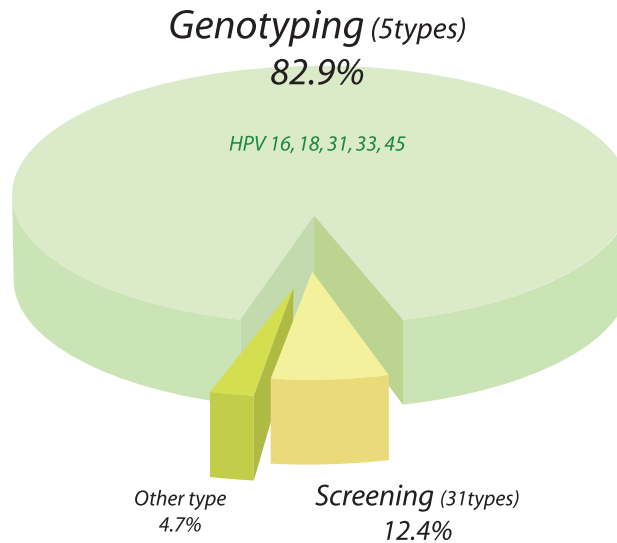
BMT HPV Genotyping 9G Membrane KIT guarantees the most accurate and precise results in genotyping HPV virus because it is the only DNA Chip which can be hybridized and washed at room temperature (20 - 30°C) to give the final data. It is long awaited top-of-the-line technology in the DNA chip field.



Slide 1 : BMT HPV Genotyping 9G Membrane KIT is easy to handle and fast to get data.

1. HPV DNAs are extracted and amplified via PCR
2. PCR products mixed with hybridization solution are loaded on 9G Membrane
3. 9G Membrane was hybridized and washed at 20 - 30°C
4. Scan and automatic data analysis

Genotyping 93.6% of HPV



Source By GSK report

Screening types : 52, 58, 35, 59, 56, 51, 39, 68, 66, 69, 73, 53, 54, 06, 11, 34, 40, 42, 26, 43, 67, 70, 71, 44, 10, 32, 55, 03, 27, 57, 74

* HPV Hi-risk types are underline.

Slide 2 : Number of HPV types by genotyping and screening

1. 5 high risk HPV types which covers 82.9% of cancer cases are genotyped
2. Other high risk and low risk HPV type which covers 12.4% of cancer cases are screened
3. BMT HPV Genotyping 9G Membrane KIT provides informations of 95.3% HPVs detected on cancer cases

Proportion(%) of HPV Types

* HPV Hi-risk types are underline.

HPV	GSK	Merck
16	53.5%	54.5%
18	17.2%	11.3%
31	2.9%	3.8%
33	2.6%	2.1%
35	1.4%	1.3%
39	0.7%	0.8%
45	6.7%	5.2%
51	1.0%	0.8%
52	2.3%	2.3%
56	1.2%	1.1%
58	2.2%	1.7%
59	1.3%	1.1%
66		0.2%
68	0.6%	
59		
73	0.5%	0.5%
82	0.3%	0.3%
06		0.1%
11		0.1%
Other	1.2%	
X	4.4%	4.6%
Total detection of HPV using BMT HPV Genotyping 9G Membrane KIT	95.3%	95.1%

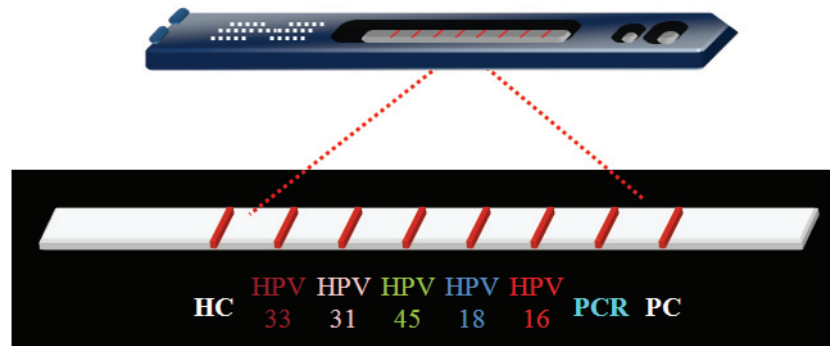
: Genotyping 5 types in BMT HPV Genotyping 9G Membrane KIT

: Screening 31 types in BMT HPV Genotyping 9G Membrane KIT

Slide 3 : Merck and GSK report on the proportion of HPV types detected on cancer cases.

BMT HPV Genotyping 9G Membrane KIT detects over 95% HPVs detected on cancer cases

Coverage (%) of HPV Types



HC : Hybridization Control

HPV Type : HPV Genotyping Line (16, 18, 45, 33, 31)

PCR : HPV Screening Line (HPV Other type)

PC : PCR Internal Control

Genotyping	
High Risk	Low Risk
16, 18, 31, 33, 45	
Genotyping HPV 83.5%	
Screening	
High Risk	Low Risk
31, 33, 45, 35, 39, 51, 52, 53, 54, 56, 58, 59, 66, 68, 69, 73	03, 06, 10, 11, 26, 27, 32, 34, 40, 42, 43, 44, 55, 57, 67, 70, 71, 74
Detecting HPV 1.7%	
Total Detection of HPV is 95.3% based on GSK report	


Slide 4 : 83.5% of High-Risk Types can be genotyped and 12.4% of HPV types can be detected.

BMT HPV Genotyping 9G Membrane KIT can detect over 95% of HPV types detected on cancer cases



Detection Limits and Specification

HPV	Detection limit
16, 18	10^1 copies
31, 33, 45, 35, 39, 51, 52, 53, 54, 56, 58, 59, 66, 68, 69, 73	10^2 copies 10^3 copies
03, 06, 10, 11, 26, 27, 32, 34, 40, 42, 43, 44, 55, 57, 67, 70, 71, 74	10^2 copies 10^3 copies

 : HPV Hi-Risk Type
 : HPV Low-Risk Type

- Reaction Temperature and Time

Loading 1: 20~30°C /20min

Loading 2: 20~30°C /15min

- Results are automatically decided by BMT Digieye II software

Analysis time 15s

- Scanners needed

BMT 1D Scanner™

- Expiration date

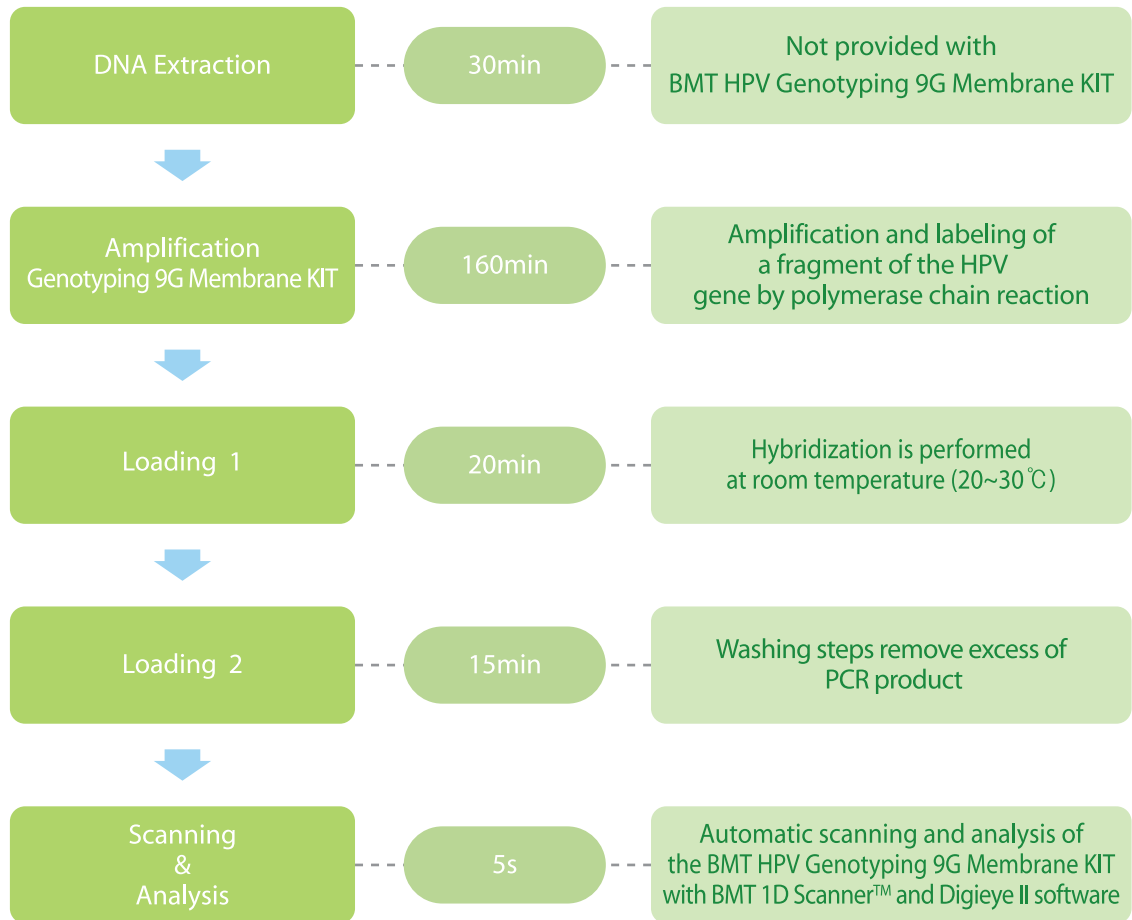
6 Month at room Temperature

12 Month at refrigerator(4°C)

Slide 5 : Detection limits

1. The copies mean the number of DNA strands detectible. The limits for each types are denoted in the table above. Type 16 can be detected when only 10 virus are present
2. BMT HPV Genotyping 9G Membrane KIT can provide the final results in short hybridization time (20 min) and subsequent washing (15min) at 20-30°C
3. The final results are analyzed automatically based on the BMT's Digieye II software

Brief User Manual



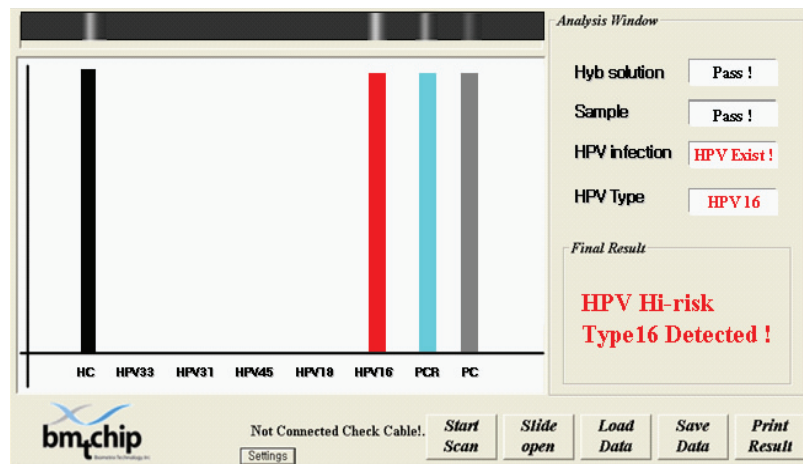
Components and Analysis software

Biometrix
Technology, Inc

08/09

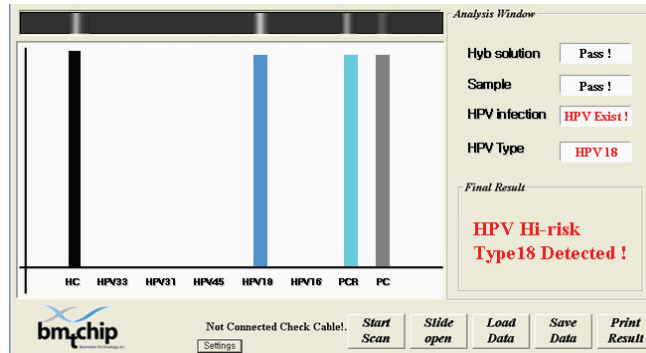
Process steps	Components	Comment
PCR Amplification	DNA extraction kit	Not provided
	PCR kit	Provided
	PCR machine	Not provided
Genotyping	DNA chips	Provided
	Hybridization buffer Washing buffer	Provided
	Scanner (BMT 1D Scanner™)	Provided (CE Certificate)
	"Digieye II" (analysis software)	Provided

Final Results by "Digieye II"

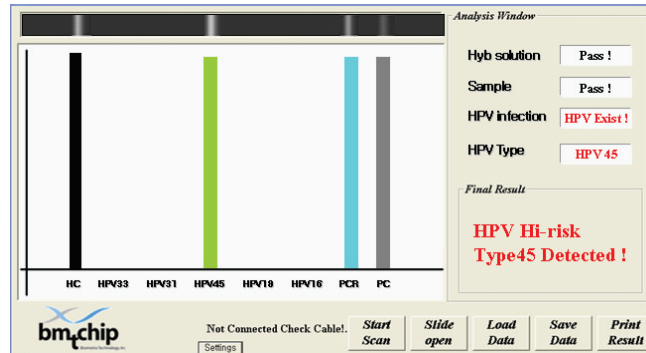


5 Genotyping Images by “Digieye II”

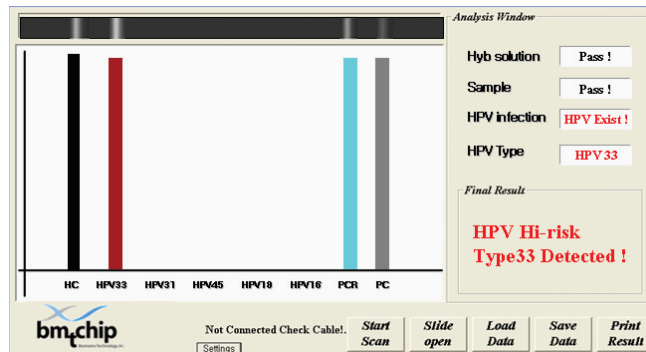
- HPV T18 Detected



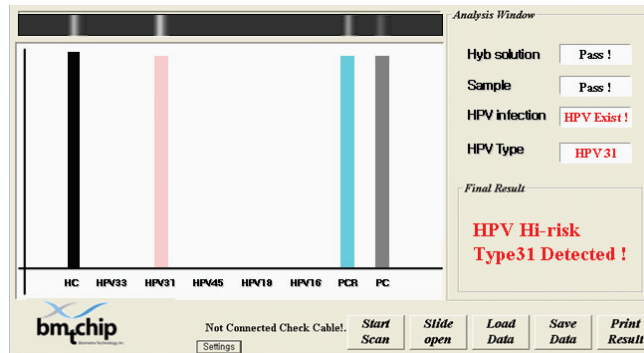
- HPV T45 Detected



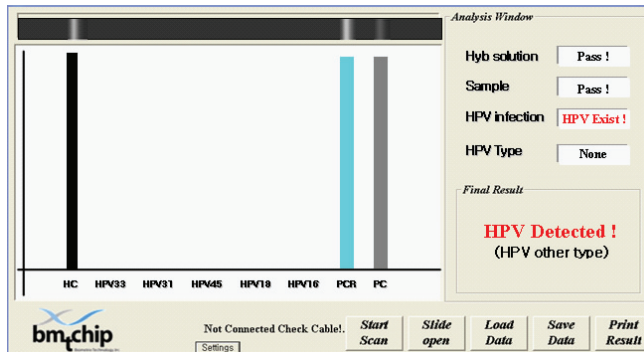
- HPV T33 Detected



- HPVT31 Detected



- HPV Other Type



- HPV Negative

