

***Redefining Molecular Biology***

***-“Unzipping Genes”***

**HiMedia Laboratories Pvt Ltd.**



**HIMEDIA**

For life is precious

**Warehouses**

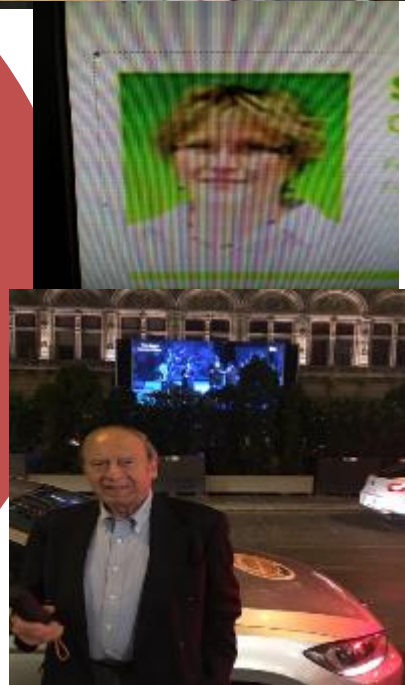
**GERMANY**

**DUBAI**

**FRANCE**

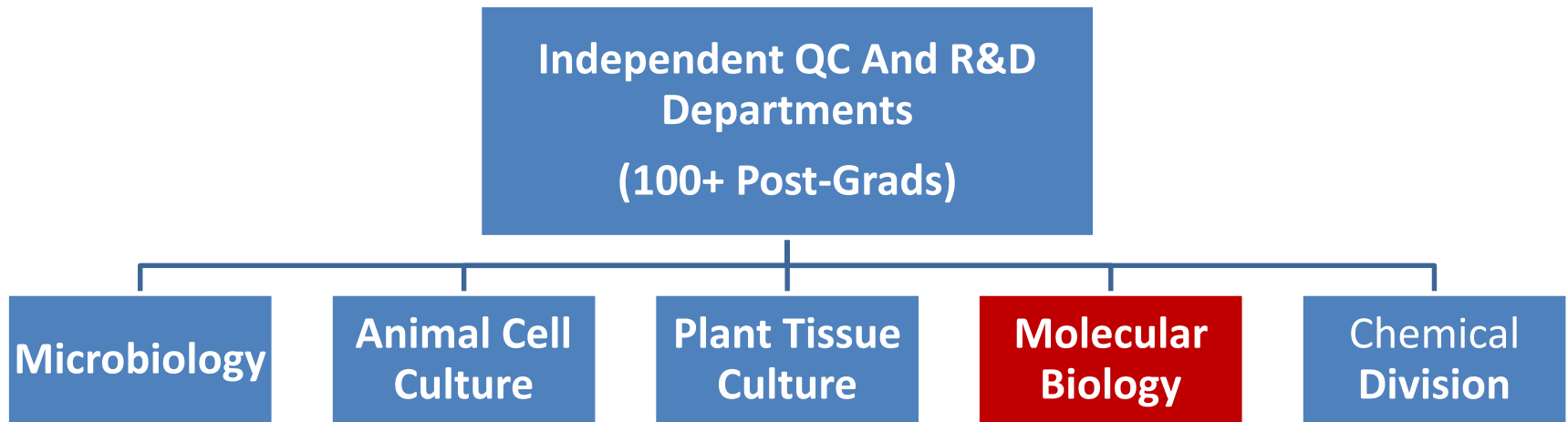
**RUSSIA**

**CHINA**



# HIMEDIA BIOSCIENCES

Qualified Team of 12 Scientists Heading Respective Department





# CERTIFICATE

Quality Austria - Training, Certification and Registration is proud to award this quality certificate to the following organization:

The quality certificate confirms the application and further development of an effective

**HIMEDIA Laboratories Pvt. Ltd.**

**QUALITY MANAGEMENT SYSTEM**  
conforming with the requirements of standard  
**EN ISO 13485:2012**  
Medical devices - Quality management systems - Requirements for regulatory purposes

**Registered Office:**  
23, Vashram Industrial Estate,  
L.B.S. Marg, Chhatkoper (W),  
Mumbai - 400066,  
Maharashtra,  
India

**Manufacturing Plant:**  
23, Vashram Industrial Estate,  
L.B.S. Marg, Chhatkoper (W),  
Mumbai - 400066,  
Maharashtra,  
India

**Unit 01:**  
23, Vashram Industrial Estate,  
L.B.S. Marg, Chhatkoper (W),  
Mumbai - 400066,  
Maharashtra,  
India

Registration No. 02250  
Date of initial audit: 11 April 2010  
Valid until: 10 April 2015

Valid until: 10 April 2015

Quality Austria - Training, Certification and Registration India,  
41, 101/102, Vashram, L.B.S. Marg, Mumbai - 400066

General Manager  
Mr. Anand Kulkarni, MSc  
Responsible Representative

Mr. Anand Kulkarni, MSc  
Responsible Representative



# CERTIFICATE

Quality Austria is an IONet Partner  
which certifies both the organization  
**HIMEDIA Laboratories Pvt. Ltd.**  
23, Vashram Industrial Estate, L.B.S. Marg, Chhatkoper (W),  
Mumbai - 400066, Maharashtra, India  
Unit 01-40-46, MIDC, Vashram Chhatkoper, Mumbai - 400066, Maharashtra, India

**QUALITY MANAGEMENT SYSTEM**

**ISO 9001:2015**

Issued on: 30/11/2015  
Quality Austria Certificate No: 30/11/2015  
It is valid only for the scope of activities indicated in this certificate.

Registration Number: AT-120260

Mr. Anand Kulkarni, MSc  
Responsible Representative

Mr. Anand Kulkarni, MSc  
Responsible Representative

Mr. Anand Kulkarni, MSc  
Responsible Representative

# Our Quality Commitment



**PCR**

*(Kits & Machines)*

*Cloning*

*Proteins*

*Nucleic Acid  
Purification  
Kits*

*Chemical  
Lab Aids*

*LSM*

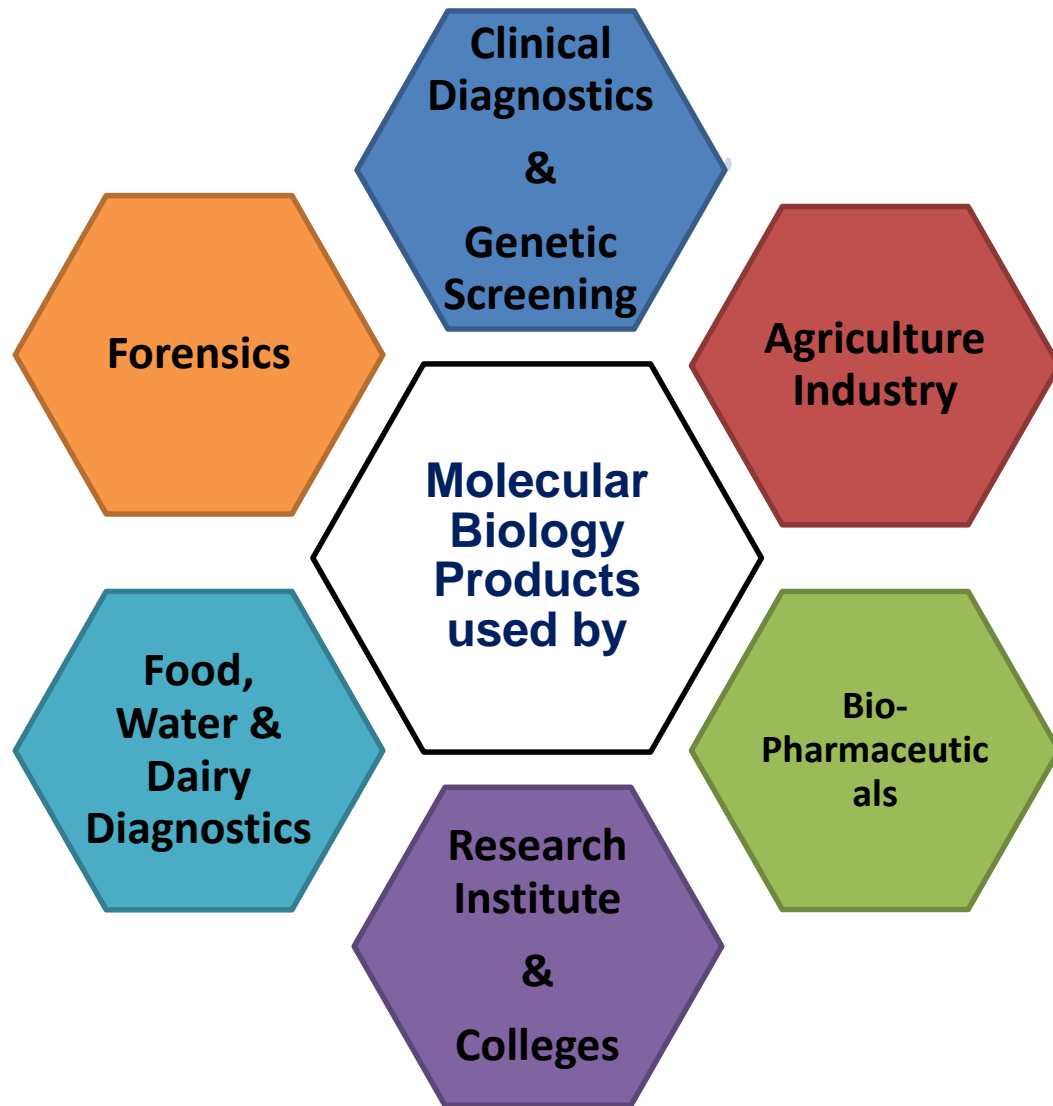
**HiMedia's  
Journey in  
Molecular  
Biology**

WHO  
USES

MOLECULAR BIOLOGY  
PRODUCTS ?



# Target Industries for Molecular Biology Products

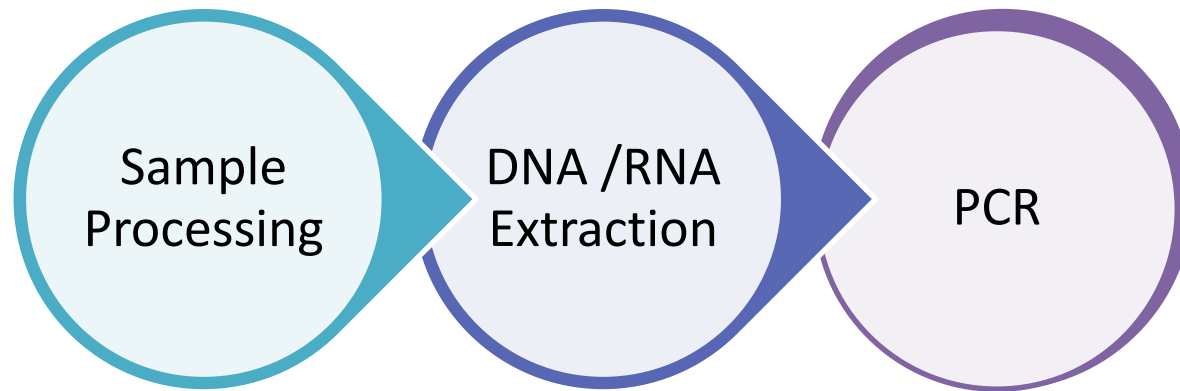








# Molecular Biology Work Flow



**Industry type:**  
**CLINICAL DIAGNOSTICS**

## Background

Light microscopy and antigen-detecting rapid diagnostic tests (RDTs) are the diagnostic tests currently recommended to guide the management of clinical malaria [1]. The use of malaria RDTs has increased in many malaria endemic countries to confirm suspected malaria cases and also for population surveys undertaken to monitor change in malaria trends in high risk populations.

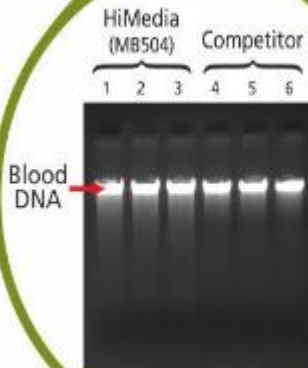
Microscopy and/or RDTs, when used in epidemiological surveys, underestimate the prevalence of low density parasite infections (<100parasites/ $\mu$ l). A systematic review of 42 published malaria prevalence surveys which compared prevalence of *Plasmodium falciparum* based on light microscopy examination of blood slides with polymerase chain reaction (PCR)-based techniques, reported that the prevalence of infection by microscopy was, on average, around half of that measured by PCR [2]. A subsequent review by the same authors showed that sub-microscopic malaria infections are relatively more common in adults than in children and in low rather than in high endemic settings, and that when transmission reaches a very low level, submicroscopic carriers can be the source of 20-50% of all



## Extraction

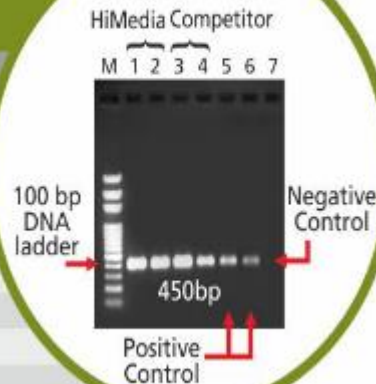
## PCR

### Blood DNA Purification (MB504)



DNA quantitation			
Lane	Yield (ng/μl)	Purity ( $A_{260}/A_{280}$ )	Purity ( $A_{260}/A_{230}$ )
1	18.6	1.72	0.67
2	19.5	1.75	0.67
3	20.3	1.71	0.69
4	15.4	1.63	1.22
5	15.6	1.64	1.18
6	13.9	1.89	1.21

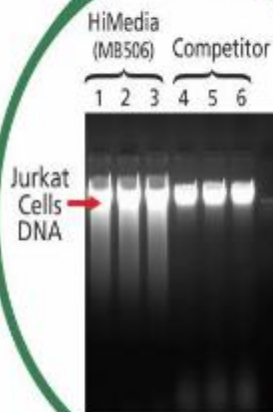
### GAPDH PCR



## Extraction

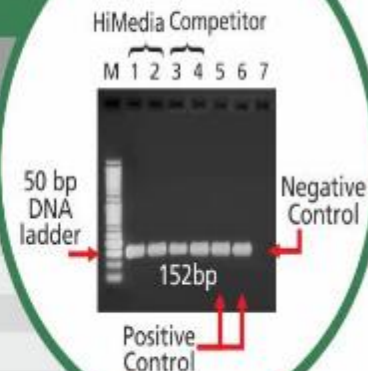
## PCR

### Mammalian DNA Purification (MB506)



DNA quantitation		
Lanes	Yield (ng/μl)	Purity ( $A_{260}/A_{280}$ )
1	247.7	1.90
2	247.6	1.88
3	246.4	1.89
4	154.1	2.00
5	155.6	1.96
6	155.0	1.90

### 18S PCR

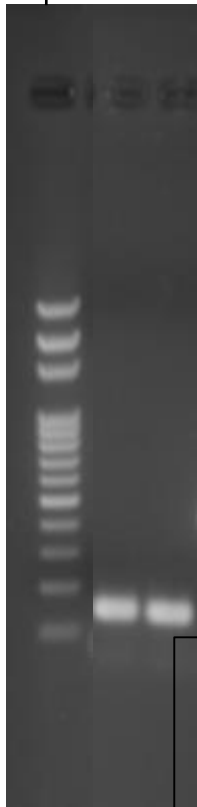


# DNA Purification Kits

Now Spin columns available in Blister Packing

100 bp ladder  
HPV sample 1  
HPV sample 2

**MB576- HiPurA™ Viral DNA Purification Kit**



PCR data of HPV samples  
Extracted using MB575 and  
amplified with PCR primers

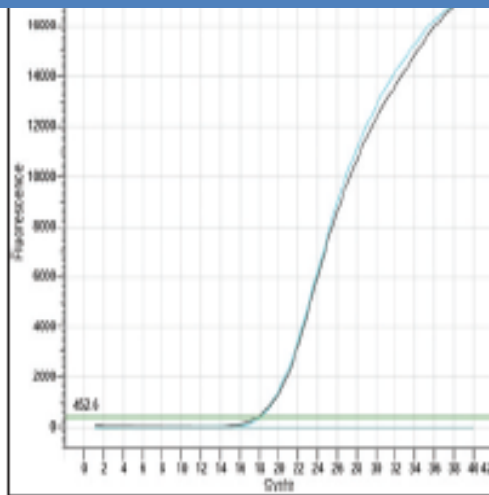
**MB573- HiPurA™ Urine DNA Purification Kit**



Lane	Sample
Lane 1	50 bp ladder
Lane 2	Urine
Lane 3	Urine
Lane 4	Positive control(Blood)
Lane 5	Negative control

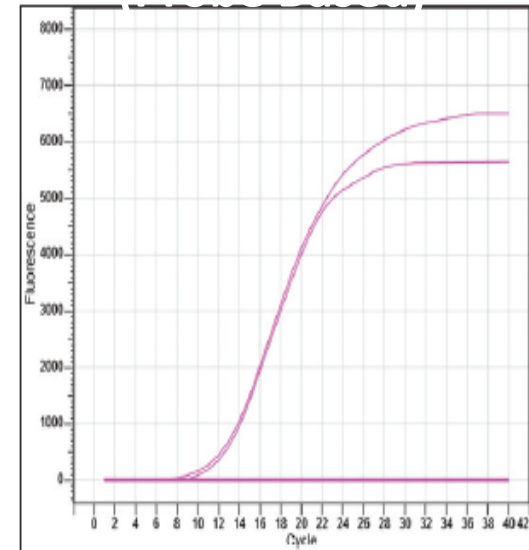
# Real time PCR Kits

## *Mycobacterium tuberculosis* Detection (MBPCR108) (Probe Based)



Sample	$C_t$ value
Negative control	N/A
1 $\mu$ l of template <i>M. Tuberculosis</i>	18.26
DNA as positive control	18.39

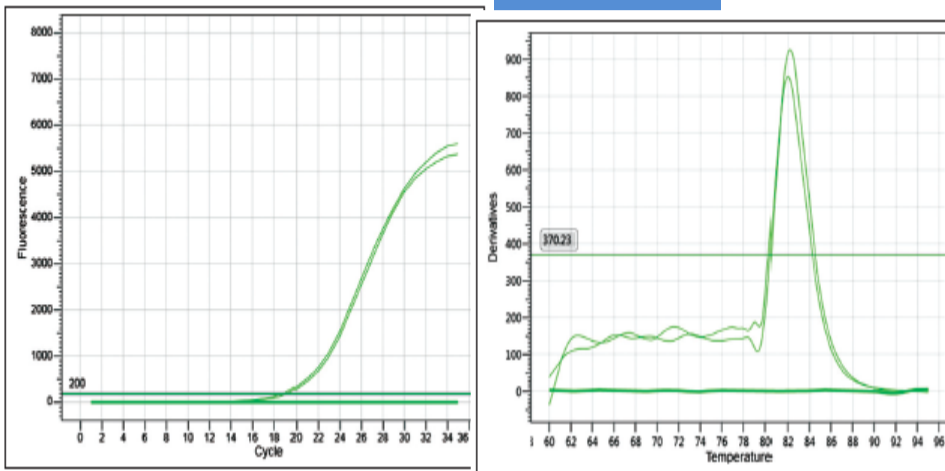
## HPV Detection (MBPCR108)



Sample	$C_t$ value
Positive Control	8.01, 8.96
Negative Control	NA

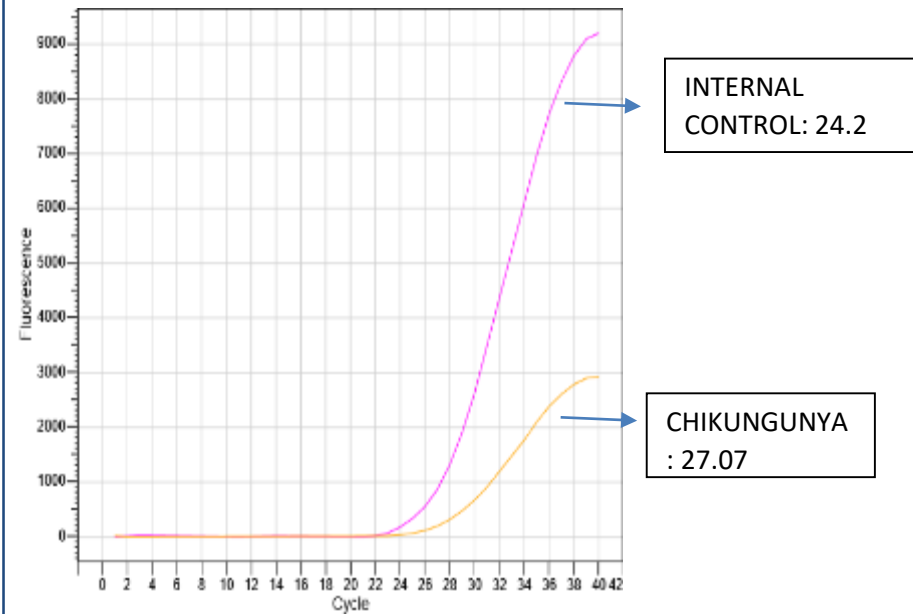
# PCR Kits for Viral infections

## Dengue Detection : One Step Real-time PCR (MBPCR103) (SYBr based)



Sample	C <sub>t</sub> value	Melt curve
Positive control	18.9	82.2
Positive control	19.32	82
Negative control	N/A	N/A

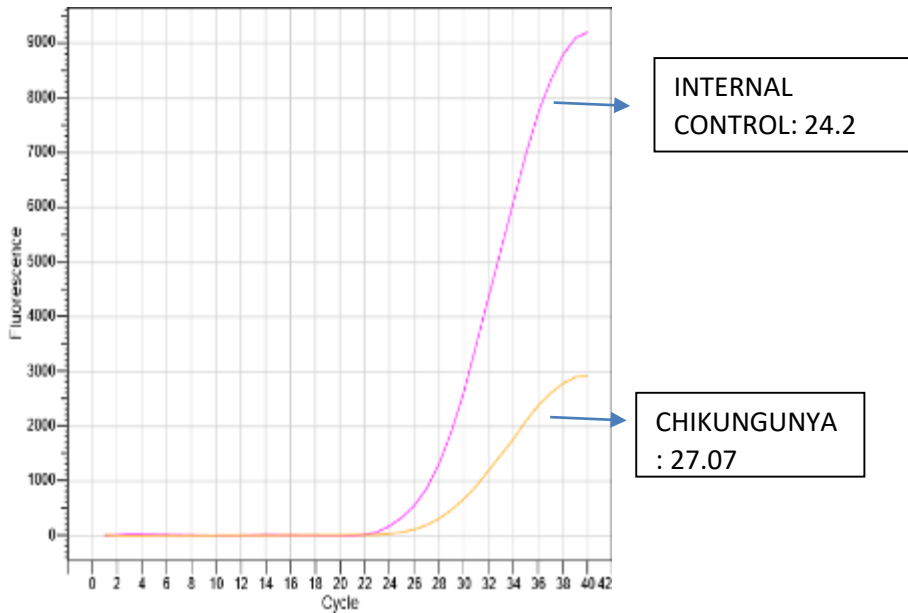
## Chikungunya PCR Detection Kit (MBPCR112) Probe Based



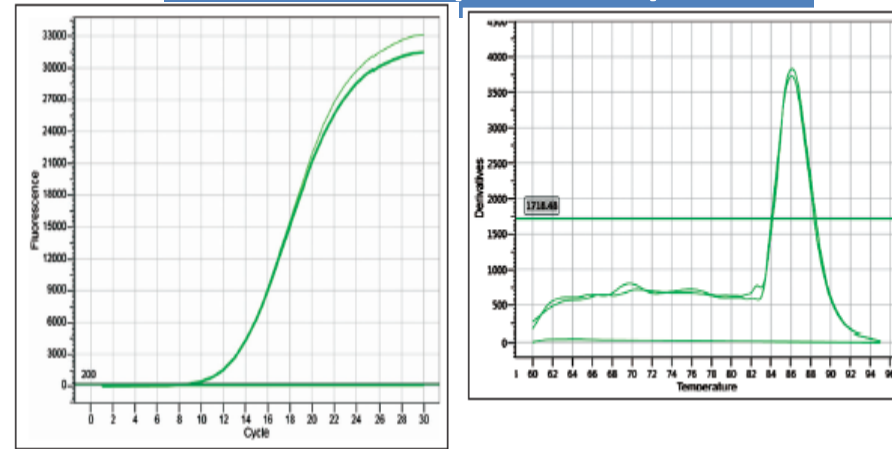


# Chikungunya Detection: One step PCR Kits

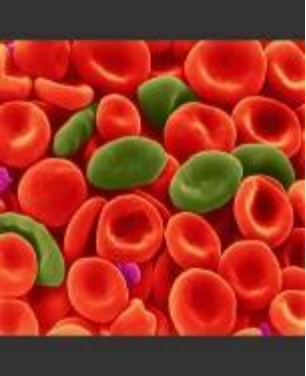
## Probe Based



## Using Hi-Quanti One Step RT-PCR Kit –SYBr Based(MBT128)



Sample	C <sub>t</sub> value	Melt curve
Positive control	8.95	81.6
Positive control	8.97	81.6
Negative control	N/A	N/A

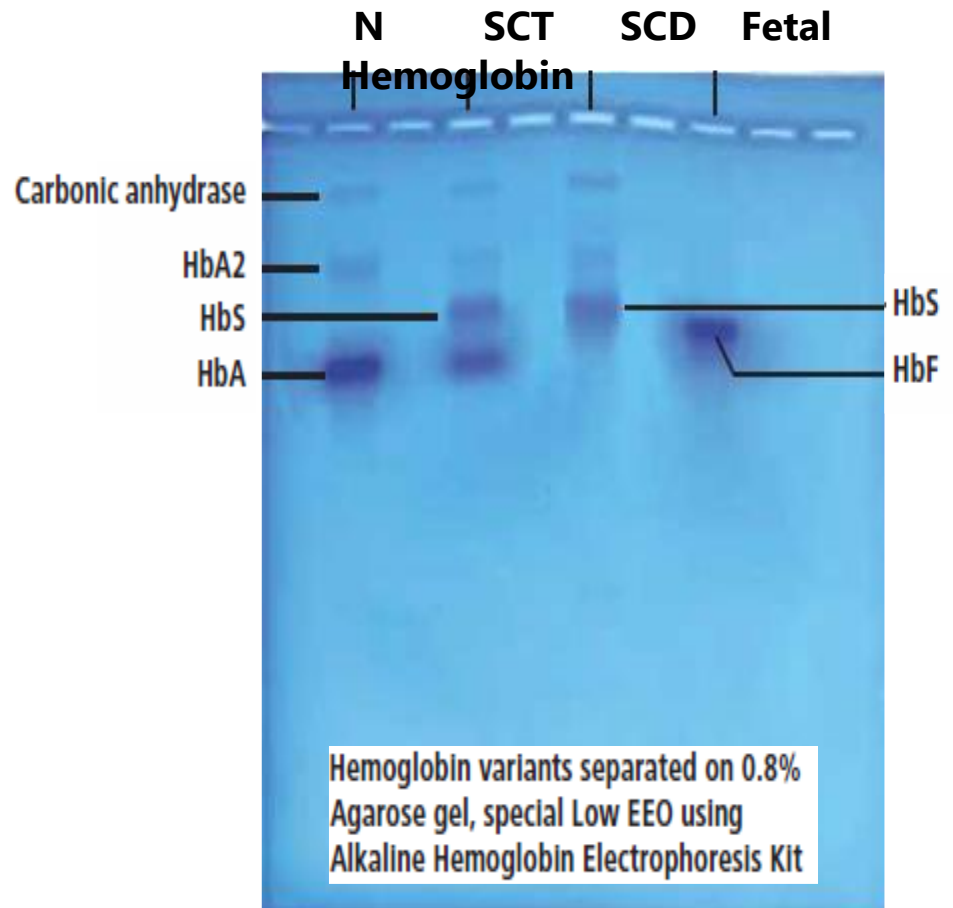


# Sickle Cell Anemia Detection Kits

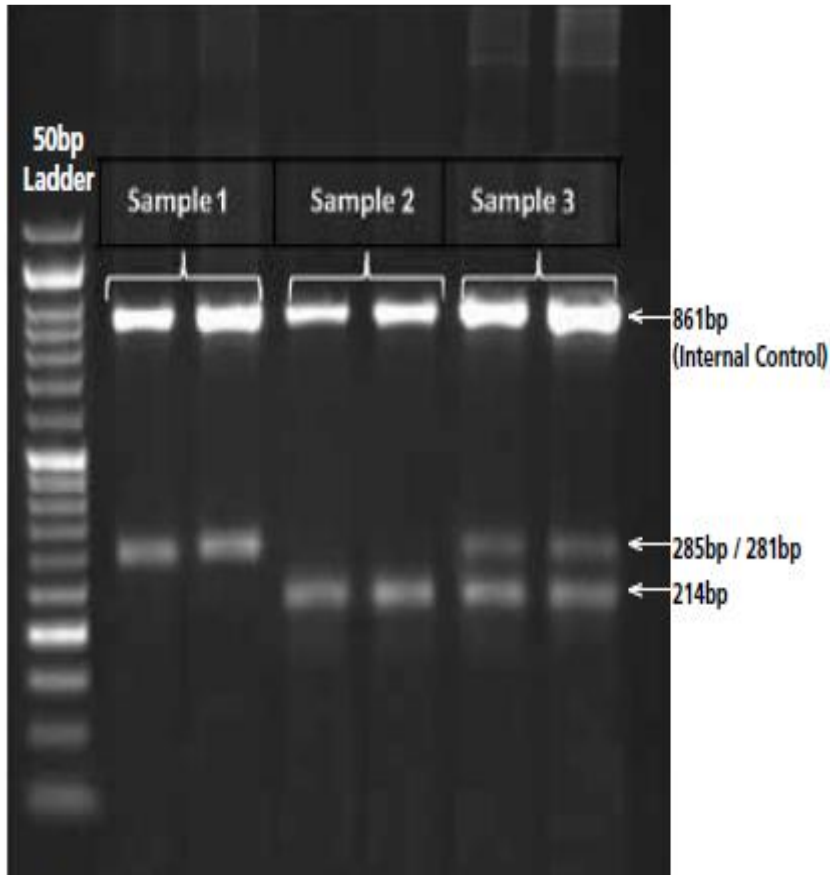
- ❖ **Primary Screening (MBP006)**  
*based on solubility difference between HbS (homozygous sickle) & HbA (normal)*



- ❖ **Confirmatory Test (MBP001)**  
*Alkaline Hemoglobin Electrophoresis Kit*



# Data for Beta Thalassemia Detection



$\beta$ -Thalassemia detection from blood sample using MBPCR014 Kit

Sample No. 1*	861 bp and 285 bp fragment corresponding to IVS-1 nt 5 (G-C) mutation <b>OR</b> 861 bp and 281 bp fragment corresponding to IVS-1 nt 1 (G-T) mutation
Sample No. 2	861 and 214 bp fragment indicating Co 8/9 (+G) mutation
Sample No. 3*	861 bp and 214 bp fragment indicating Co 8/9 (+G) mutation & 285 bp fragment corresponding to IVS-1 nt 5 (G-C) mutation <b>OR</b> 281 bp fragment corresponding to IVS-1 nt 1 (G-T) mutation

\* Sequencing is recommended to differentiate between 281bp and 285bp fragments

**Industry type:  
Food / Dairy/Water/ Beverage**



# **Detection of Adulteration in Cow Milk & Buffalo Milk**



- **Food adulteration is a global concern and developing countries are at higher risk associated with it due to lack of monitoring and policies.**
- **Milk powder is the second most likely food item being in the risk of adulteration after olive oil**

### **Adulterants**

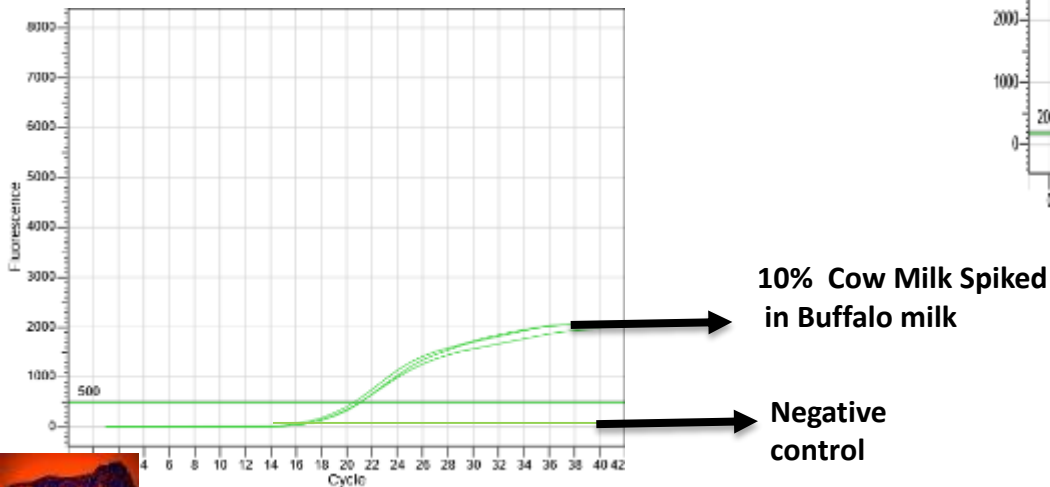
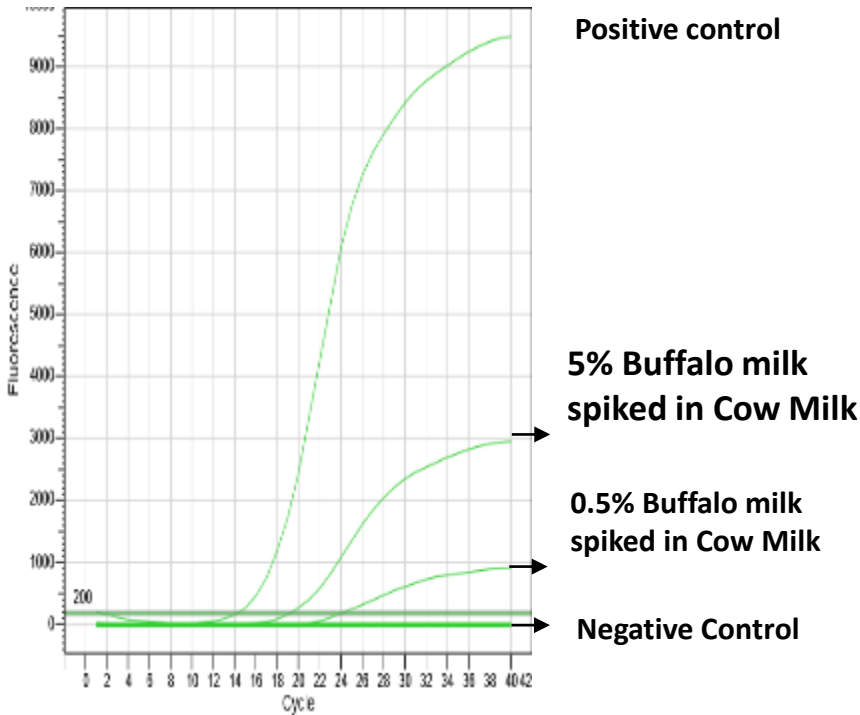
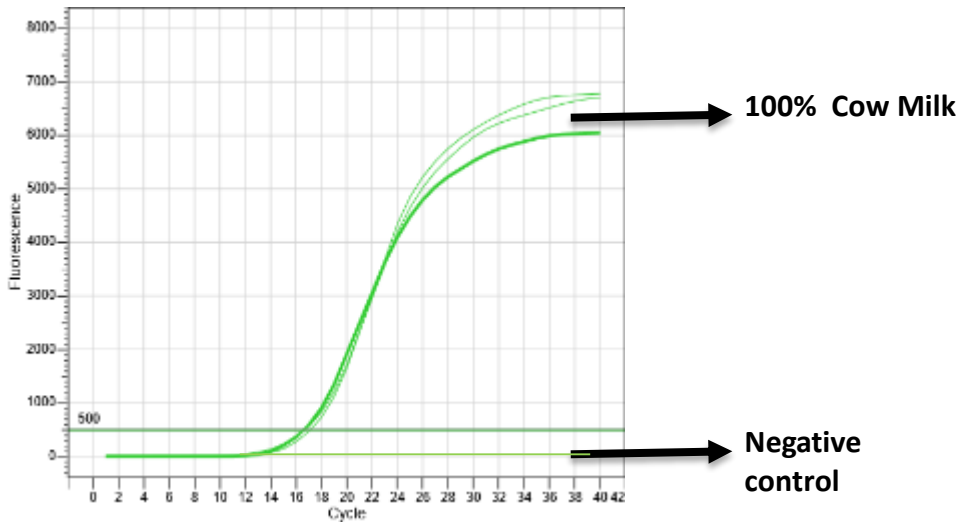
1. Vegetable protein
2. Milk from different species
3. Addition of whey and watering - economically motivated adulteration



# Food Adulteration

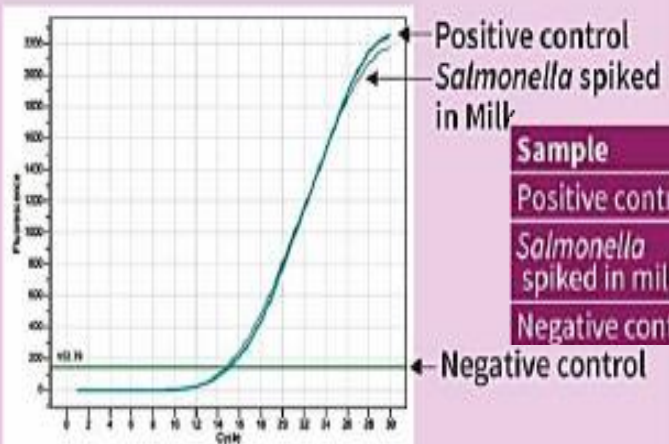
## Cow Detection Kit (Real Time Probe Based PCR) (MBPCR139)

## Buffalo Detection Kit (Real Time Probe Based PCR) (MBPCR138)



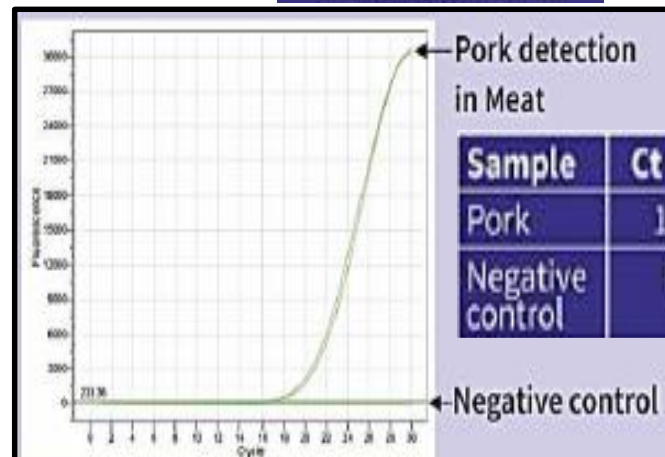
# Food Diagnostics

## Food Pathogen Detection Kits



Sample	Ct value
Positive control	14.89
Salmonella spiked in milk	15.32
Negative control	N/A

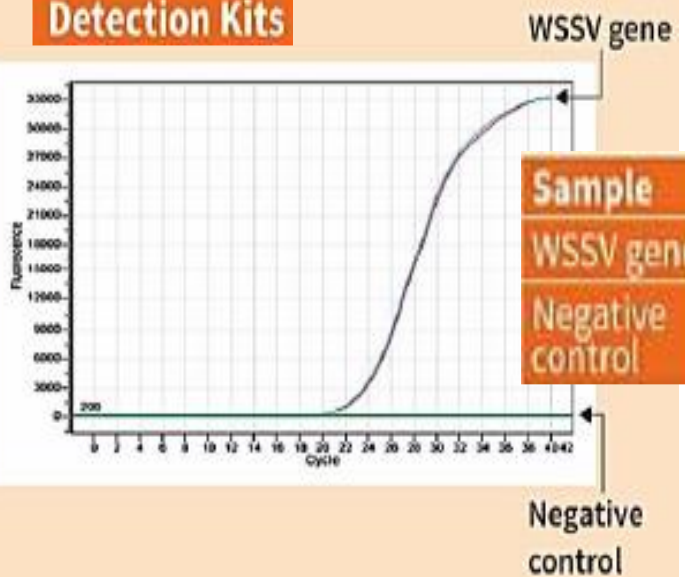
## Meat Adulteration Detection Kits



Sample	Ct value
Pork	16.56
Negative control	N/A

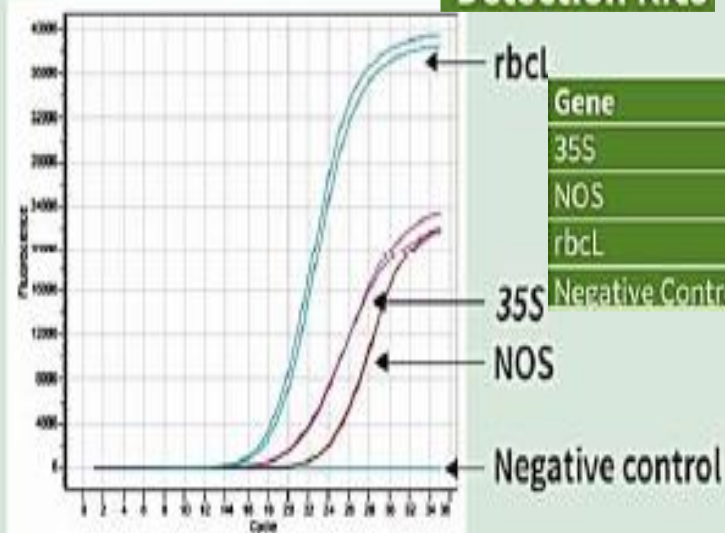
(Sensitivity : 0.01%)

## WSSV Detection Kits



Sample	Ct value
WSSV gene	19.49
Negative control	N/A

## GMO Detection Kits



Gene	Ct Value
35S	15.43
NOS	20.19
rbcl	13.9
Negative Control	N/A



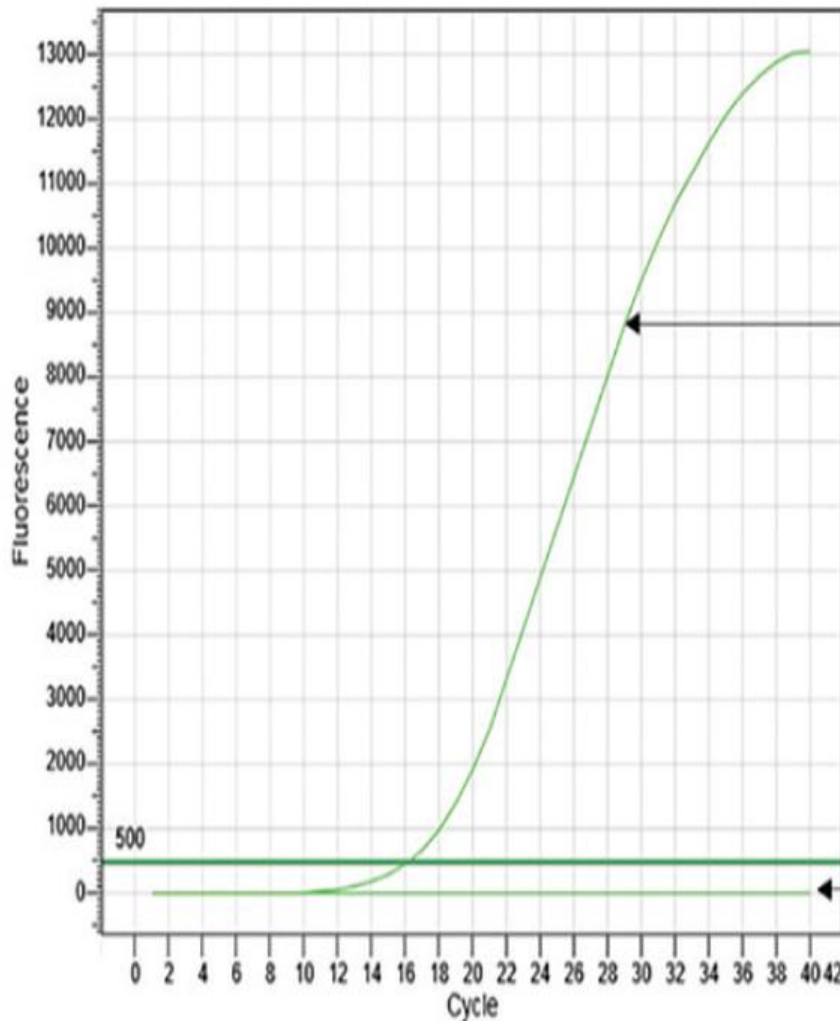
# WATER

# DIAGNOSTICS

NEW

## Water DNA Purification Kit [without enrichment] (MB577)

## Legionella spp. Water Detection Kit (MBT142) [PCR-Extraction Combo]



*Legionella* spp.  
spiked in water  
sample

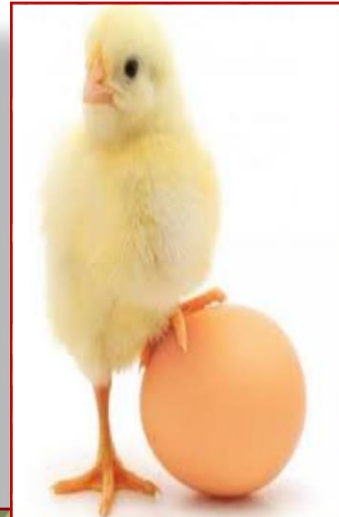
Negative  
Control

Sr. no.	Sample	Ct value
1.	Negative control	N/A
2.	Amplicon of <i>Legionella</i> spp. from spiked water sample	13.92



**Industry type :**  
**VETERINARY DIAGNOSTICS**

# Molecular Diagnostics of Animal Diseases with Himedia's PCR Platforms





# VETERINARY DIAGNOSTICS

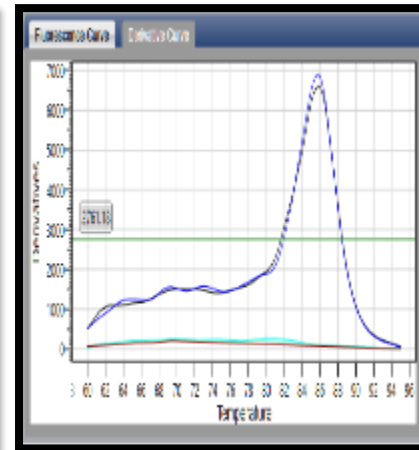
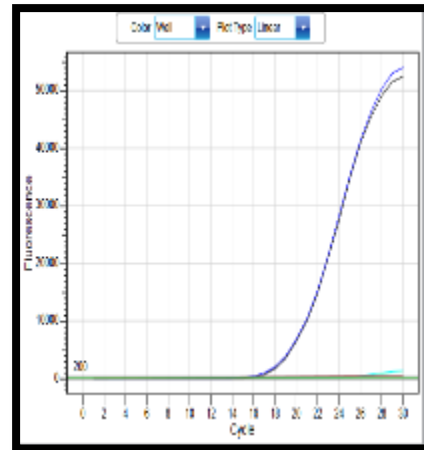
Name	SemiQ Codes	Real Time SyBr Codes
Haemorrhagic Septicemia (Pasteurella multocida)	MBPCR 109	MBPCR 129
Brucella	MBPCR113	MBPCR 121
Mycoplasma gallisepticum	MBPCR 114	MBPCR 122
Theileria	MBPCR 115	MBPCR 123
Peste des petits ruminants (PPR)	MBPCR 116	MBPCR 124
Babesia bigemina	MBPCR 117	MBPCR 125
New Castle Disease Virus (NDV)	MBPCR 118	MBPCR 126
Animal Pox	MBPCR 119	MBPCR 127
Infectious Bovine Rhinothacheitis (IBR)	MBPCR 120	MBPCR 128
Salmonella spp. (generic)	MBPCR004	MBPCR024



# Real Time SyBr Data for Animal Pathogens- Bacterial

## Hemorrhagic Septicemia

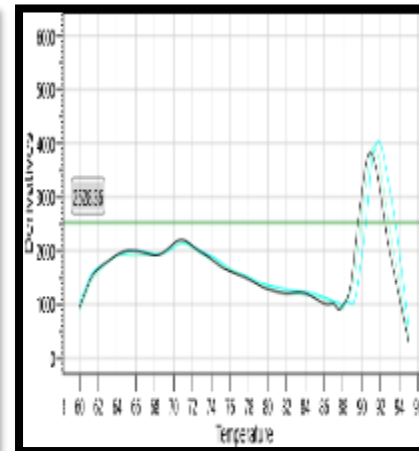
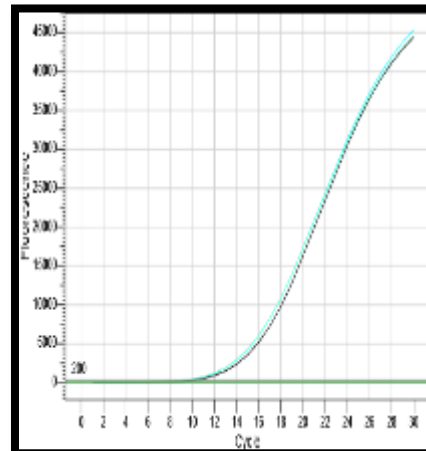
Sample	Ct Value
Tissue DNA1	16.06
Tissue DNA2	15.28



Sample	Tm
Tissue DNA1	85.8
Tissue DNA2	85.8



## Brucella

Sample	Ct Value
Positive DNA1	8.81
Positive DNA2	8.86
Tissue DNA	9.42



Sample	Tm
Positive DNA1	91.8
Positive DNA2	91.3
Tissue DNA	90.9

# Validation Letters for Animal PCR kits from Dept. Of Animal Husbandry, Government of India

महाराष्ट्र शासन  
 Maharashtra State  
 महाराष्ट्र शासन, अहमदनगर - ४११००७  
 GOVERNMENT OF MAHARASHTRA  
 DEPARTMENT OF ANIMAL HUSBANDRY  
 WESTERN REGIONAL DISEASE DIAGNOSTIC LABORATORY  
 DISEASE INVESTIGATION SECTION, AUNDH, PUNE 411007

TELEPHONE : 02025692135  
 Fax : 02025691434  
 E-MAIL : [dis.pune7@gmail.com](mailto:dis.pune7@gmail.com)  
[dis.pune7@gmail.com](mailto:dis.pune7@gmail.com) / [dis.pune7@gmail.com](mailto:dis.pune7@gmail.com)

DIS/VIRO/ 1131A/ 2018, Pune - 30<sup>th</sup> May 2018

To  
 The Director,  
 Molecular Biology and Virology  
 HiMedia Labs. Pvt. Ltd.  
 Mumbai, India

**Subject:** Validation of Animal Pathogen Detection Kits based on PCR/Real Time SYBr, Probe based and SemiQuantitative/Conventional PCR) platforms

Respected Sir,

We received the following PCR Kits along with DNA and RNA extraction kits from HiMedia Laboratories Private Limited from time to time for validation of Kits based on PCR/Real Time SYBr, Probe based and SemiQuantitative/Conventional PCR) platforms.

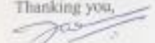
We have validated the following kits by testing 50 field samples each received at our institution by using the below mentioned PCR Kits for Theileria, IBR and Animal Pox detection. 15 samples were tested for PPR and Brucella infection. DNA and RNA Extraction Kits along with the mentioned PCR machines were used for validation of these kits. (Details for the same attached herewith) The following kits and products have been validated during the course of this exercise:-


- **Conventional/SemiQuantitative PCR Kits**
  - 1) MBPCR115: Animal Theileria Detection Kit (Semi-Q PCR Based)
  - 2) MBPCR120: Animal Infectious Bovine Rhinotracheitis (IBR) Detection Kit (Semi-Q PCR Based)
  - 3) MBPCR119: Animal Pox Detection Kit (Semi-Q PCR Based)
  - 4) MBPCR113: Animal Brucella Detection Kit (Semi-Q PCR Based)
  - 5) MBPCR116: Animal Peste des petits ruminants (PPR) Detection Kit (Semi-Q PCR Based)

Page 1 of 2

- **Real Time SYBr based PCR Kits**
  - 1) MBPCR123: Animal Theileria Detection Kit (Real Time SYBr based)
  - 2) MBPCR120: Animal Infectious Bovine Rhinotracheitis (IBR) Detection Kit (Real Time SYBr based)
  - 3) MBPCR119: Animal Pox Detection Kit (Real Time SYBr based)
  - 4) MBPCR121: Animal Brucella Detection Kit (Real Time SYBr based)
  - 5) MBPCR124: Animal Peste des petits ruminants (PPR) Detection Kit (Real Time SYBr based)
- **Real Time Probe based PCR Kits**
  - 1) MBPCR165: Animal Theileria Detection Kit (Real Time Probe based)
  - 2) MBPCR164: Animal Infectious Bovine Rhinotracheitis (IBR) Detection Kit (Real Time Probe based)
  - 3) MBPCR163: Animal Pox Detection Kit (Real Time Probe based)
  - 4) MBPCR162: Animal Brucella Detection Kit (Real Time Probe based)
- **DNA/RNA Extraction kits**
  - 1) MB554: HiPurA MultiSample DNA Purification Kit
  - 2) MB615: HiPurA Viral RNA Purification K
  - 3) MB522: HiPurA Sperm Genomic DNA Purification Kit
- **PCR Machines**
  - 1) LA1024: InstaQ48 M2 Real Time PCR machine
  - 2) LA948: Prima DUO PCR machine

We hereby confirm that the above kits have undergone validation successfully at our facility.

Thanking you,  
  
 Dr. S.B. Tatavarthy  
 Joint Commissioner of Animal Husbandry,  
 Disease Investigation Section, Aundh, Pune 7  
 Telephone :020-25692135 email:dis.pune7@gmail.com



Joint Commissioner of Animal Husbandry  
 Disease Investigation Section  
 Maharashtra State  
 Aundh, Pune 411 007

Page 2 of 2

**Industry type :**  
**AGRICULTURE & PLANT SCIENCE**



## List of Plants tried with Superplant Kit

Pine leaf (Hard leaf)

Banana leaf (Hard leaf)

Sugarcane leaf (Hard leaf)

Mango leaf (Hard leaf)

Pomegranate leaf (Soft leaf)

Pomegranate exocarp (Soft tissue)

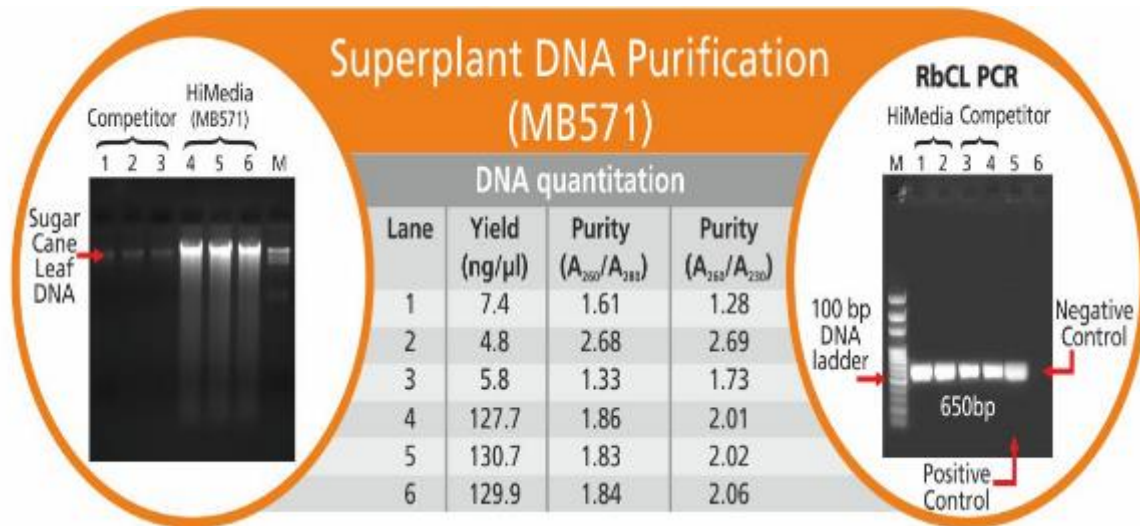
Grape leaf (Soft leaf)

Safflower (Soft leaf)

Coconut leaf (Hard leaf)

Soyabean leaf (soft leaf)

Pickle sample (soft tissue)

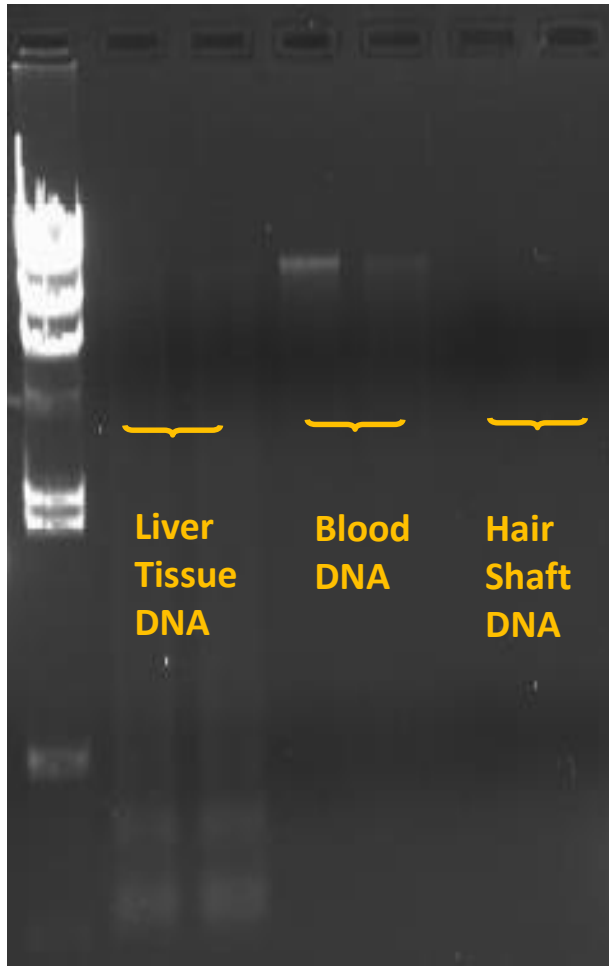




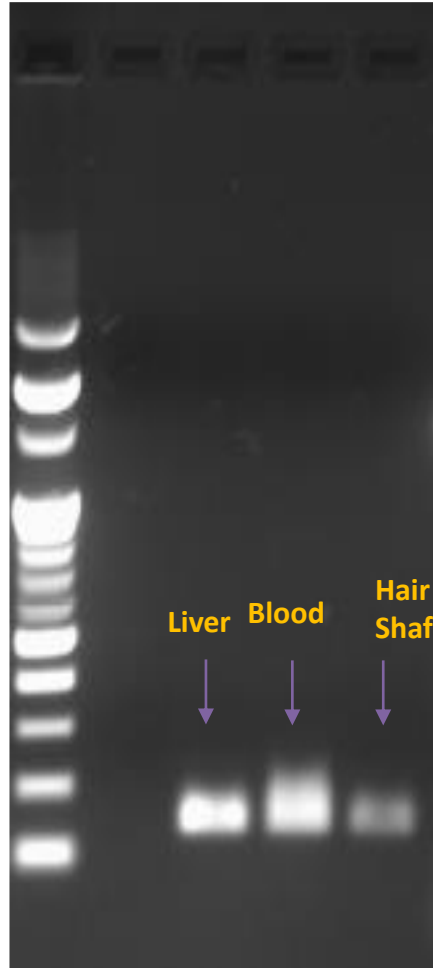
**Industry type :**  
**FORENSIC APPLICATION**

# Forensic Applications

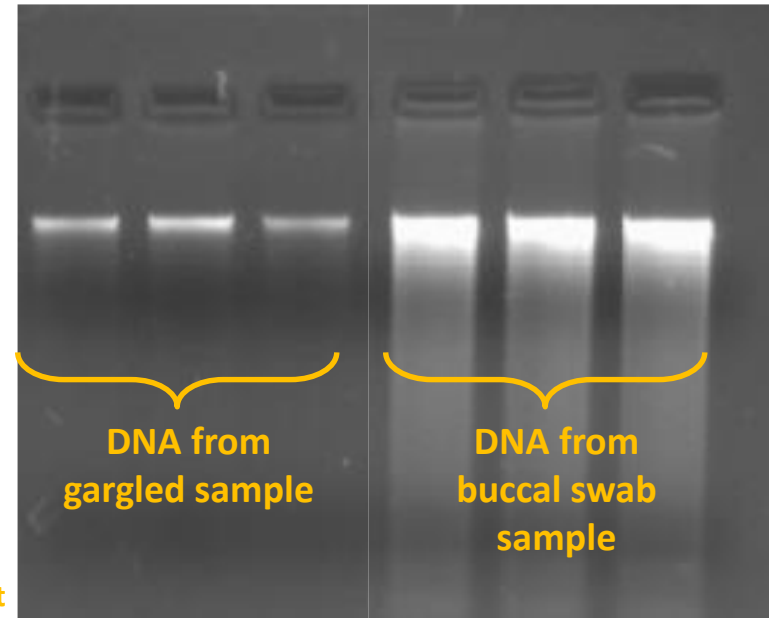
## DNA PURIFICATION DATA



## 18S PCR DNA



## Buccal DNA using HiMedia's MB531 Kit



# HiMedia's InstaDNA Cards

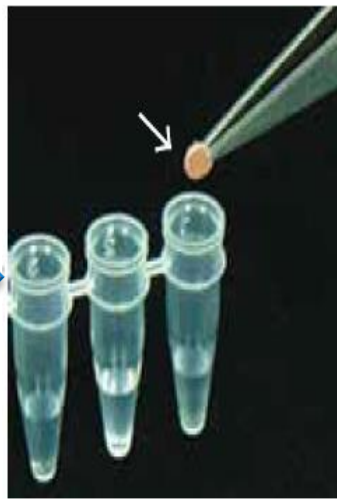




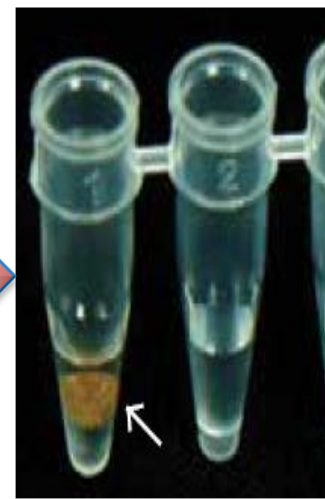
blood sample spotted on InstaDNA™ Card



Card punching after sample drying using LA1000-InstaDNA™ punch



3mm size of punch ready for direct PCR



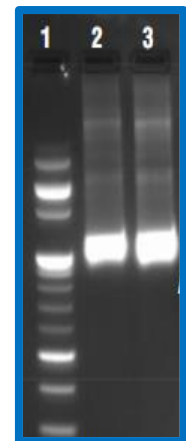
Card punch in PCR reaction mixture



PCR in Prima 96 Thermal Cycler

# Procedure for Direct card PCR using HiMedia's Thermal Cycler

PCR from blood spotted on the card



## SALIENT FEATURES

- ❖ DNA physically entrapped and immobilized in the card.
- ❖ DNA can be stored and shipped at Room Temperature.

**Industry type :**

**ACADEMIC RESEARCH APPLICATIONS**

**1) DNA**

**2) RNA**

**3) CLONING & PROTEINS**

# DNA



Yield like  
Never seen before

## Extraction

### Gel Purification Kit (MB539)

Lanes	Peak integrity (%)
1	73.86
2	72.26
3	69.11
4	68.15
5	68.15
6	61.33

## Extraction

### Plasmid DNA Purification (MB508)

DNA quantitation			
Lane	Yield (ng/μl)	Purity (A <sub>260</sub> /A <sub>280</sub> )	Purity (A <sub>260</sub> /A <sub>230</sub> )
1	122.9	1.90	2.07
2	127.4	1.90	2.11
3	124.8	1.86	2.03
4	115.5	1.91	2.40
5	115.1	1.93	2.48
6	111.5	1.94	2.40



# RNA

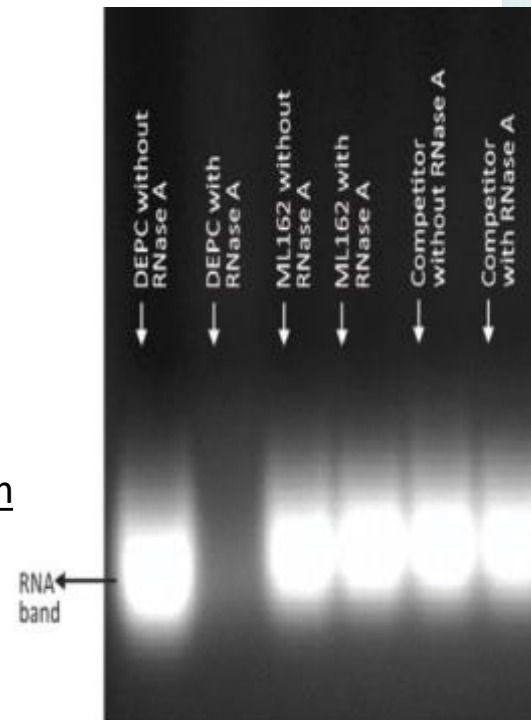
## RNase Ki™ (ML162)

This reagent is used to free the RNase prior to RNA extraction

- Surfaces
- Equipments
- Pipettes
- Labware

Wipe off the material with liberal amount of solution

Any residue remaining from, will not interfere with the extraction procedure or subsequent downstream applications.



# Feedback for MBT076 HicDNA Synthesis kit from Kerala Agricultural University

**From:** Kiran [mailto:[ag.kiran@gmail.com](mailto:ag.kiran@gmail.com)]

**Sent:** 20 September 2016 05:26

**To:** [skandasamy@himedialabs.com](mailto:skandasamy@himedialabs.com)

**Subject:** MBT076 Product Feedback

Dear Kandaswamy,

HicDNA synthesis kit (MBT076 - 25R) was used by me for cDNA synthesis from total RNA for performing qRT-PCR. The kit worked good. It yielded high amounts of cDNA. qRT-PCR using the sample yielded Cq values in the range of 20 -25 for both target and reference genes.

Best regards

Kiran A. G.

Teaching Assistant

B.Sc - M.Sc. Integrated biotechnology course

**Kerala Agricultural University**



# Citations galore !!



- Frontiers in Pharmacology Oct2017 edition carrying citations for InstaQ96 Real time Machine and Sybr PCR Mastermix

RNA concentration and purity were estimated using Nano Drop 2000c (Thermo fisher).

For gene expression study, primers for  $\beta$ -actin, ATM, Ku 80, Ligase IV, Mre 11, P53, Caspase 3, BAX and BCL 2 were designed using NCBI primer designing software and purchased from IDT Integrated DNA technology, United States company. The sequence and annealing temperature of each primer was

mentioned in Table 1. The Hi-CDNA synthesis kit was used for cDNA synthesis from 50 ng of total RNA according to the manufacturer's protocol. The Q-PCR reactions were prepared using Hi-SYBr Master Mix by following the instruction provided by the manufacturer. The samples were analyzed using INSTA Q-96 PCR machine from Himedia, India. The optimized PCR cycling conditions were as follows: Initial denaturation 94°C for 5 min, denaturation 94°C for 30 s and annealing as specified in

Table 1 for 30 s.

United States). Comparisons were made among the untreated, radiation, G-003M alone and radiation + G-003M groups for immunocytochemistry, DNA fragmentation, blood hematology, bone marrow smear and counting studies. In ROS study the untreated, radiation, Rutin alone and Rutin + radiation groups were compared. Similarly in MTT assay study untreated DMSO alone, podophyllotoxin alone, rutin alone and G-003M alone was compared. For cell-cycle study comparisons were made among the untreated, podophyllotoxin alone. In case of DNA pk, Ku 80, Ligase IV, Mre 11, NBS 1 and Rad 50 heat map analysis was done by using R-python software. All experiments consisted of 6 animals and each experiment run in duplicate. A value of  $p < 0.05$  was considered statistically significant. \* $p < 0.05$ , \*\* $p < 0.01$ , \*\*\* $p < 0.001$ , <sup>ns</sup>not significant ( $p > 0.05$ ).

RESULTS

## Simvastatin and MBCD Inhibit Breast Cancer-Induced Osteoclast Activity by Targeting Osteoclastogenic Factors

Kaushik Chowdhury, Ankit Sharma, Tanu Sharma, Suresh Kumar & Chandl C. Mandal

To cite this article: Kaushik Chowdhury, Ankit Sharma, Tanu Sharma, Suresh Kumar & Chandl C. Mandal (2017): Simvastatin and MBCD Inhibit Breast Cancer-Induced Osteoclast Activity by Targeting Osteoclastogenic Factors, *Cancer Investigation*, DOI: [10.1080/07357907.2017.1309548](https://doi.org/10.1080/07357907.2017.1309548)

To link to this article: <http://dx.doi.org/10.1080/07357907.2017.1309548>



Published online: 02 May 2017.



Submit your article to this journal 

**cDNA synthesis Kit  
and Taq DNA  
Polymerase used in  
Cancer therapy**

## Materials and methods

### Materials

Simvastatin (Cat No.: S6196), para-nitrophenyl phosphate (pNPP) (Cat No.: p4744), TRI reagent (Cat No.: T9424), and TRAP staining kit (387A-1KT) were purchased from Sigma Aldrich (St. Louis, MO, USA), and MBCD (TC227) was obtained from HiMedia (Mumbai, India). Cell culture reagents and medium, including fetal bovine serum (FBS) and polymerized chain reaction (PCR) kits, were purchased from HiMedia. cDNA synthesis kit (AB1453A) and Taq polymerase (MBT060A) were bought from Thermo Scientific (Vilnius, Lithuania) and HiMedia, respectively. MMP-2 antibody (SC-10736) and actin antibody (A02066) were used from Santa Cruz Biotechnology (Dallas, TX, USA) and Sigma Aldrich respectively. RAW264.7 and MCF-7 cell lines were obtained from NCCS cell repository (Pune, Maharashtra, India).

### Cell culture

RAW264.7 and MCF-7 cells were cultured and maintained in Dulbecco's modified eagle's medium (DMEM; Cat No. AL007A, HiMedia) supplemented with 10% FBS (Cat No. RM1112, HiMedia) and 1% penicillin-streptomycin in a humidified atmosphere of 5% CO<sub>2</sub> at 37°C.

# Competent Cells?

Used extensively in Gene Cloning in research institutes



**DH5α**

- ✓ Individually packed cells and media for every test

**BL21 (DE3)**

- ✓ Prevents Freeze thaw cycles

**XL-1Blue**

- ✓ Ready to use for multiple scientists in a single lab

**Competent Cells**



# PROTEINS

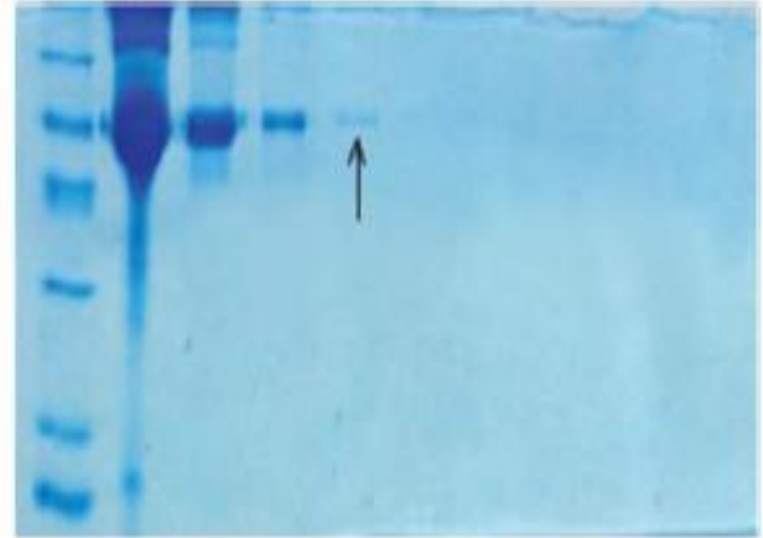
## X-Press Blue™ Protein Stain (ML091)



SDS-PAGE gel stained using  
Competitor's protein stain

*Coomassie Stain*

**3 hours – Overnight**



SDS-PAGE gel stained using  
HiMedia's ML091

*X-Press Blue™ Protein Stain*

**10 minutes-1 hour**

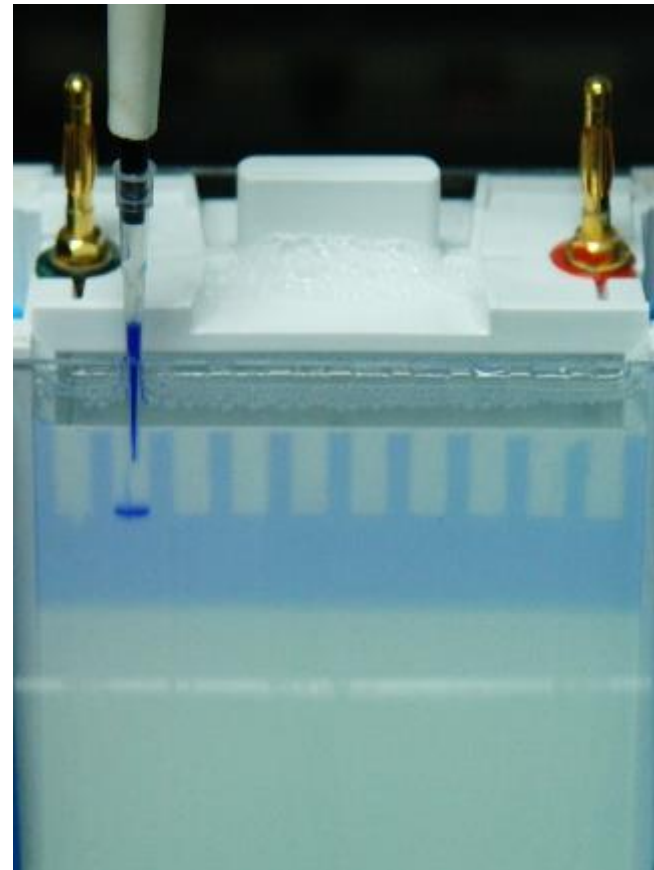
**Higher Sensitivity than Competitor**



# Comparison of HiMedia's Colored Stacking Gel Buffer with Regular Stacking Gel Buffer



Stacking gel prepared using regular Stacking Gel Buffer

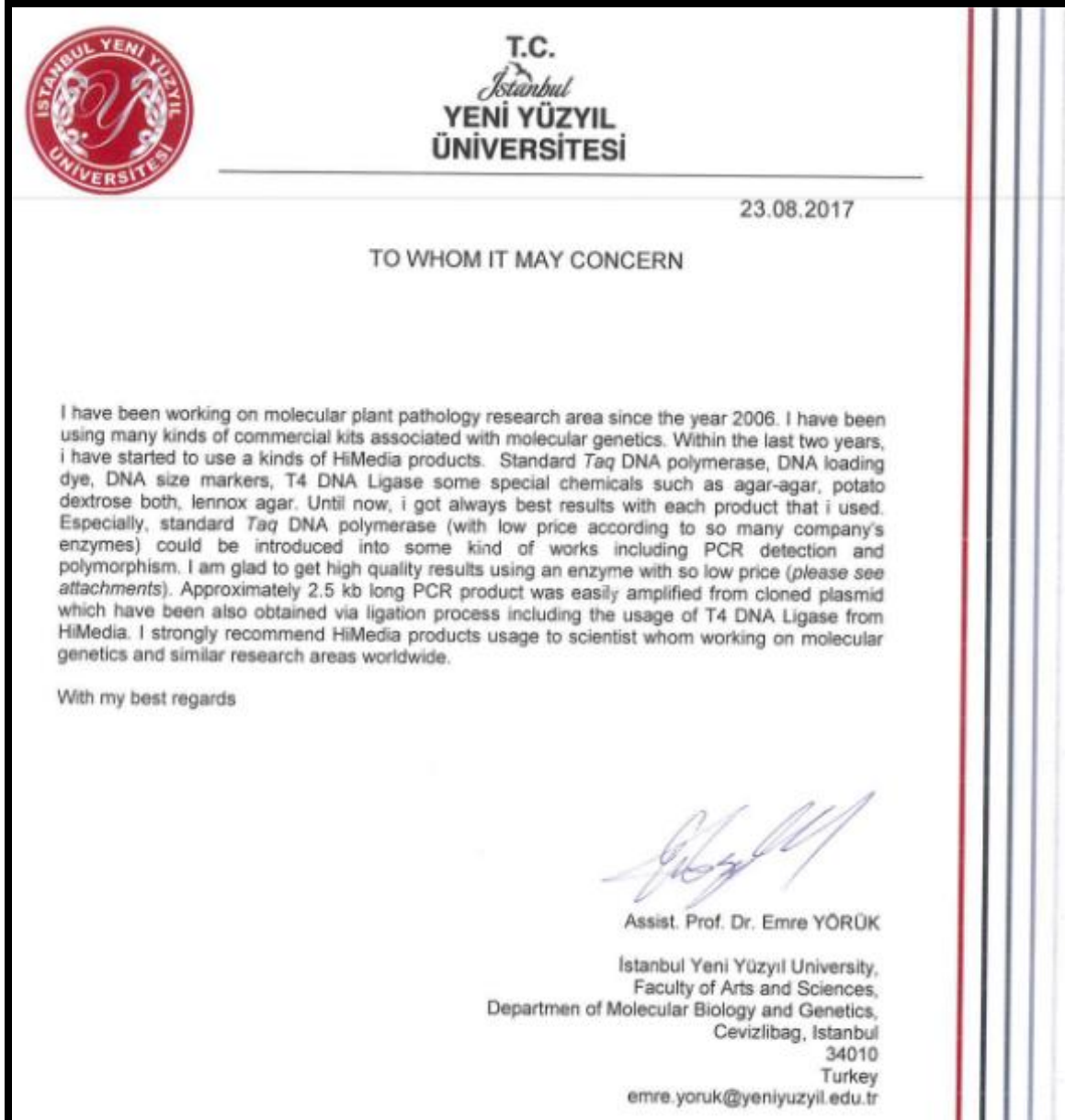


Stacking gel prepared using ML155-Colored Stacking Gel Buffer

*Improves Visibility of Wells & Ease of Loading*

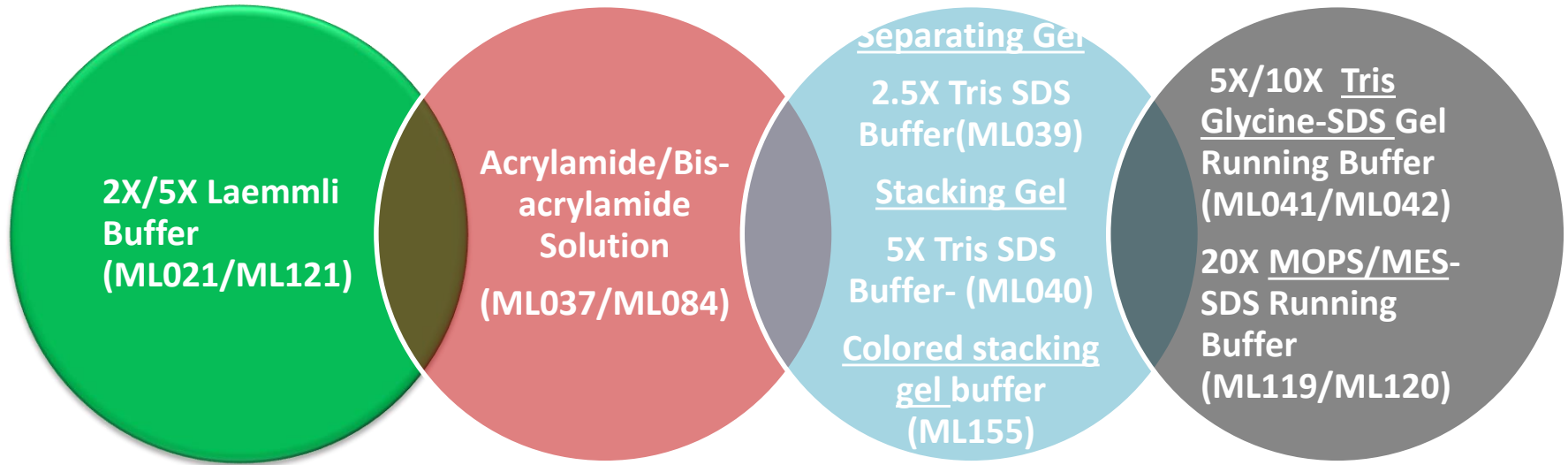


# Accolades from Abroad !!

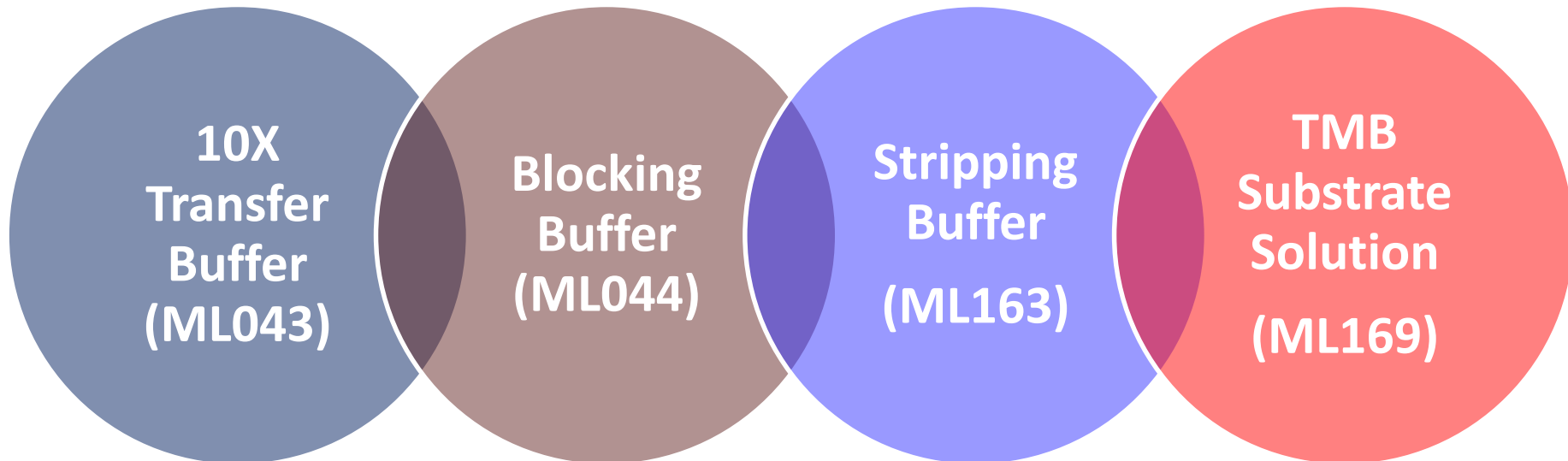


- **HiMedia MB products being preferred for medical research in TURKEY !!**

# SDS-PAGE-Buffers for Electrophoresis



# Buffers for Western Blotting



# Staining Solutions

**Traditional Staining**

**Coomassie®  
Brilliant Blue Stain  
(ML046)**

**Reversible Staining**

**Hi-Zinc stain  
(ML057)**

**Hi-Zinc  
destain  
(ML058)**

**Zinc Stain-  
Destain Kit  
(ML124)**

**Ultra Sensitive Staining**

**Silver  
Staining Kit  
(ML123)**

**Membrane Staining**

**Ponceau-S  
Stain  
(ML045)**

**Ponceau-S  
Fixative  
(ML052)**

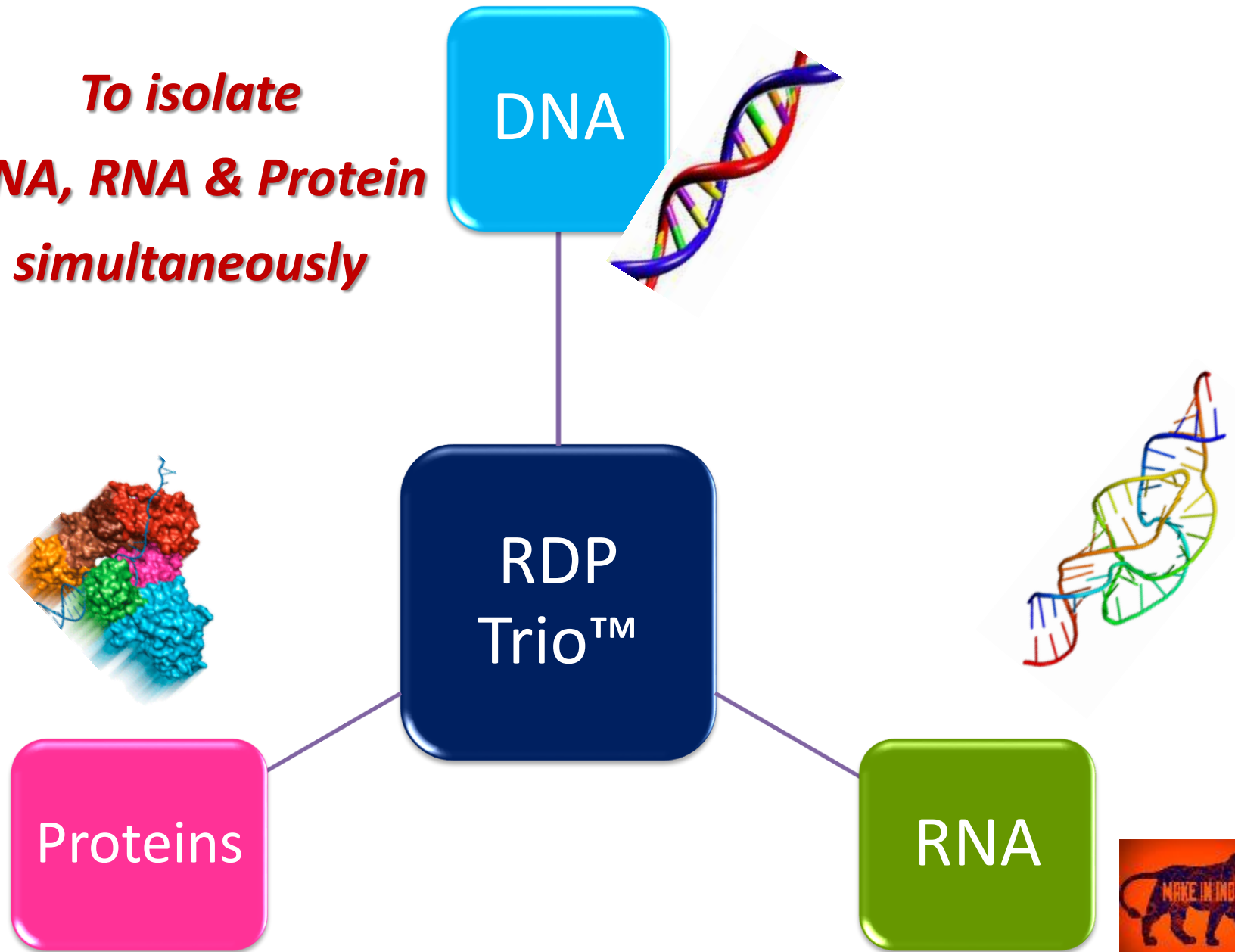
**Destain Free Staining**

**X-Press  
Blue™  
Protein Stain  
(ML091)**



# RDP Trio™ Reagent (MB566)

*To isolate  
DNA, RNA & Protein  
simultaneously*





**MB Instruments**



**Prima 96 PLUS™**



**Prima TRIO™**



**Prima 96**



**ECO 96™**

# HiMedia's PCR Systems



**Prima DUO™**



**Wee 16/32**



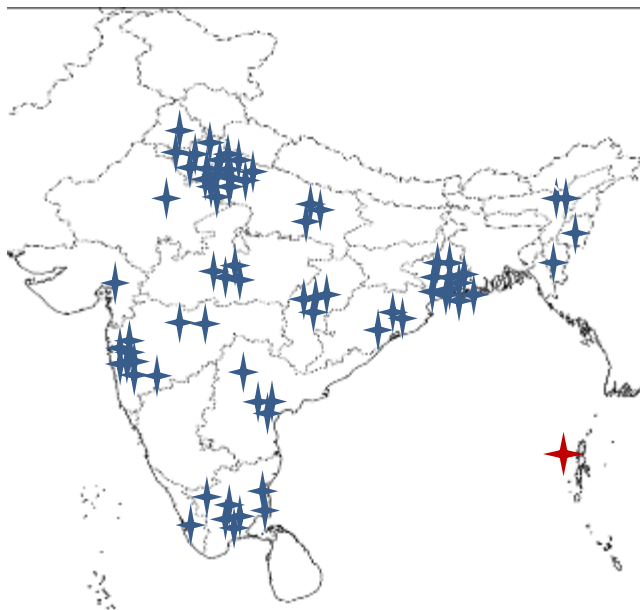
**Insta Q96 Real Time PCR System**



**Insta Q48M Real Time PCR System**

### PCR DETAILS

PCR machine	TOTAL
Prima PCR	400+
Palm PCR	40+
Wee PCR	50+
Insta Q Real Time	30+



### International Details

PCR Machine	TOTAL
Thermal Cycler	25
Insta Q	15





## Prima 96™

A Single 96  
well Block  
Gradient

## Prima DUO™

2 Blocks of  
48 wells  
each  
Gradient

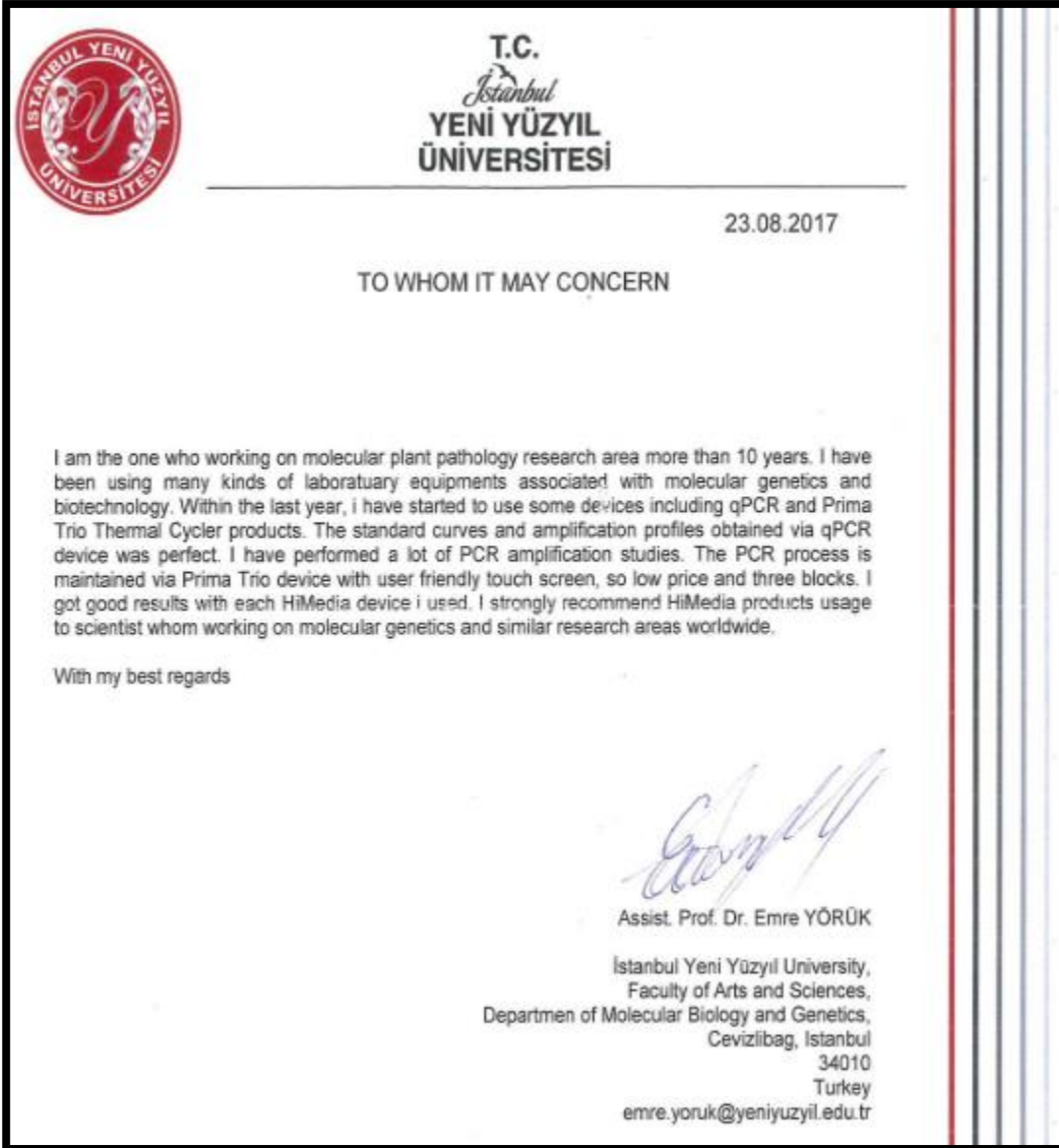
## Prima Trio™

3 Blocks of  
32 wells  
each

## Prima 96 Plus™

A Single 96  
well Block  
Gradient: 1 ~  
25°C  
(MAX 5°C  
zone-to-zone,  
six zones)

# Accolades from Abroad !!



- **HiMedia  
Prima Trio  
Machine in  
TURKEY !!**

# Appreciations and Positive feedback from IIT and ICAR-NIHSAD institute users (PCR Machines)



भारतीय प्रौद्योगिकी संस्थान गाँधीनगर  
विश्वकर्मा राजकीय अभियंत्रणिकी महाविद्यालय परिसर,  
वीरसेवा, अहमदाबाद, गुजरात - 382 424  
INDIAN INSTITUTE OF TECHNOLOGY GANDHINAGAR  
Vishvakarma Government Engineering College Campus,  
Chandkheda, Ahmedabad, Gujarat - 382 424

Office : +91 93 2847 4216  
Fax : +91 79 2397 2583  
E-mail : office@iitgn.ac.in  
website : <http://www.iitgn.ac.in>

IIT GN

28-April-2018


TO WHOMSOEVER IT MAY CONCERN

We are happy with the performance, quality, accuracy and results of InstaQ 96 Real Time PCR instrument (LA1012) of HiMedia Laboratories Pvt Ltd.

We are thankful to Mr Swapneel Tank and Mr Abhijit Gade for installing the instrument and giving training to our team for the usage of this equipment.

We would recommend this instrument to molecular biologists for reliable quantitative PCR applications of different kinds.

Sincerely,  
  
Umashankar Singh,  
Assistant Professor  
Biological Engineering  
Indian Institute of Technology  
Gandhinagar, Gujarat  
India.



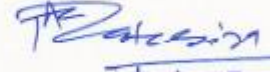
भा.कृ.अनु.प.-राष्ट्रीय उच्च सुरक्षा पशुशोष संस्थान  
ICAR-National Institute of High Security Animal Diseases  
(एवियाइड रीफरेंस लैबोरेटरी ऑफ़े आरबीआई-संघर्ष प्रयोगशाला)  
(OIE Reference Laboratory for Avian Influenza)  
आनंद नगर, भोपाल - 462022 (म.प्र.), भारत  
Anand Nagar, Bhopal - 462022 (M.P.), India

Dr. ATUL KUMAR PATERIYA, Scientist

Dated: 14.12.2017

To  
Himedia Laboratory pvt.Ltd.  
A-516, Swastik Disha Business Park  
Mumbai-400086

I am happy to write the review cum feedback for the thermal cycler "Prima DUO (LA948)" from Himedia Laboratory pvt.Ltd. This institute purchased total 03 thermal cycler for the same model. The machines are in regular use for the past 10 months after installation. All the three machines are working perfectly alright without any technical issue till date. The machine is easy to operate with touch screen technology, reliable for the results in terms of uniformity and repeatability. The performance of the same is very good with high ramp rate. On the basis of my personal experience I confirm my satisfaction with the "Prima DUO (LA948).

Sincerely  
  
Dr. ATUL KUMAR PATERIYA  
Scientist (Animal Biotechnology)  
National Institute of High Security Animal Diseases  
Indian Council of Agricultural Research  
Bhopal-462022 (M.P.)

# HiMedia's REAL TIME PCR Machines

InstaQ 96



InstaQ 48M Series: LA1023/LA1024

Real Time PCR System





# Salient Features of InstaQ Real Time Series

- ❖ 5 Channel Detection
- ❖ Open System [Compatible with Kits and Reagents **of all other machines**]
- ❖ Innovative 3D Hot Lid Technology
- ❖ Normalization with ROX dye not required
- ❖ Wireless experience



## Comparative data of InstaQ96 with competitor machines in Vietnam- Naam Khoa

Date 21/11/16		
Assay for HPV multiplex with FAM & HEX		
ct value for HEX dye		
Sample Id	ct value Insta Q96	ct value CFX96
B1	NA	NA
B2	<b>16.74</b>	18.28
B3	<b>19.64</b>	21.62
B4	<b>23.98</b>	25.04

HPV cDNA Real time PCR Programme

Total no of Samples is 24

8 - NA

16 samples    Lowest ct                      Highest ct values

Insta Q 96    3 samples                                  3 samples

CFX 96        4 samples                                  8 samples

Rotor Gene    9 samples                                  6 samples

**out of 16 samples for 13 samples Insta Q96 have ct value better than either Rotor gene or CFX96.**

out of 16 samples for 4 samples CFX 96 have ct value better than either Insta Q96 or Rotor gene.

out of 16 samples for 10 samples Rotor Gene have ct value better than either Insta Q96 or CFX96.



# हाफकिन प्रशिक्षण, संशोधन व चाचणी संस्था

महाराष्ट्र शासन अनुदानित सोसायटीज् रजिस्ट्रेशन अँक्ट १८६० अधिनियमान्वये नोंदणी कृत स्वायत्त संस्था  
भारत सरकार, विज्ञान व प्रौद्योगिक मंत्रालय, मान्यताप्राप्त "वैज्ञानिक आणि औद्योगिक संशोधन संस्था"

## Haffkine Institute for Training, Research & Testing

An Autonomous Institute of Govt. of Maharashtra Registered under Societies Registration Act 1860  
Recognised as "Scientific & Industrial Research Organisation" (SIRO) by Govt. of India, Ministry of Science & Technology.



HI/VYR/04/17  
03/02/2017

To,  
Dr. Rajas V. Warke  
Director, Molecular Biology and Virology  
HiMedia Laboratories Pvt. Ltd.  
Ghatkopar (west)  
Mumbai – 86

Dear Sir,

Please find enclosed herewith, the report on the validation of the InstaQ 96 Real Time PCR machine (Thermal Cycler) instrument at our laboratory against the CDC approved reagents and Thermal Cycler, for detection and identification of Influenza A (H1N1) virus.

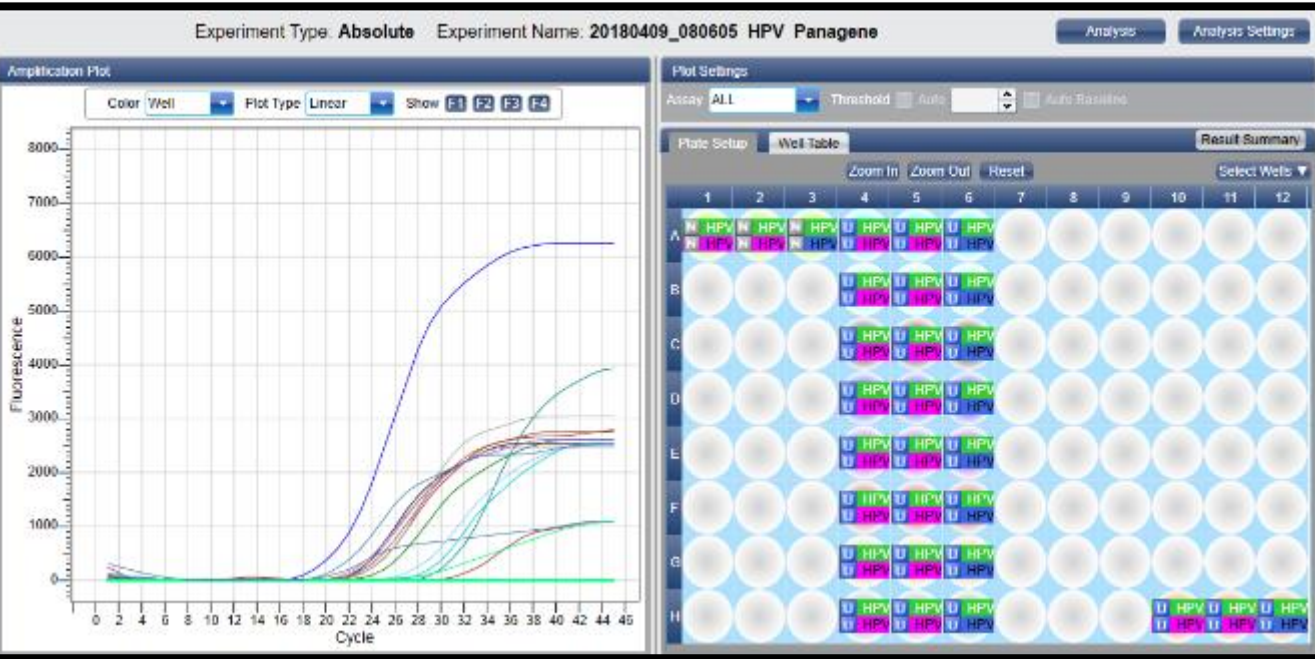
The report indicates that the InstaQ 96 real time thermal cycler submitted by M/s. Hi Media Ltd for evaluation shows results comparable to the StepOne Plus thermal cycler (ABI make) while detecting targets used for H1N1 influenza virus diagnosis. This report, should however, not be read as any endorsement of the InstaQ96 Real Time Thermal cycler. The outcome is being given on the letter head only to ease the sharing of the findings.

Thanking you,  
With regards,

Head  
Department of Virology

**CDC approved site-  
Haffkine Institute  
validating InstaQ96  
for H1N1 diagnostics  
compared to  
Thermo machine**

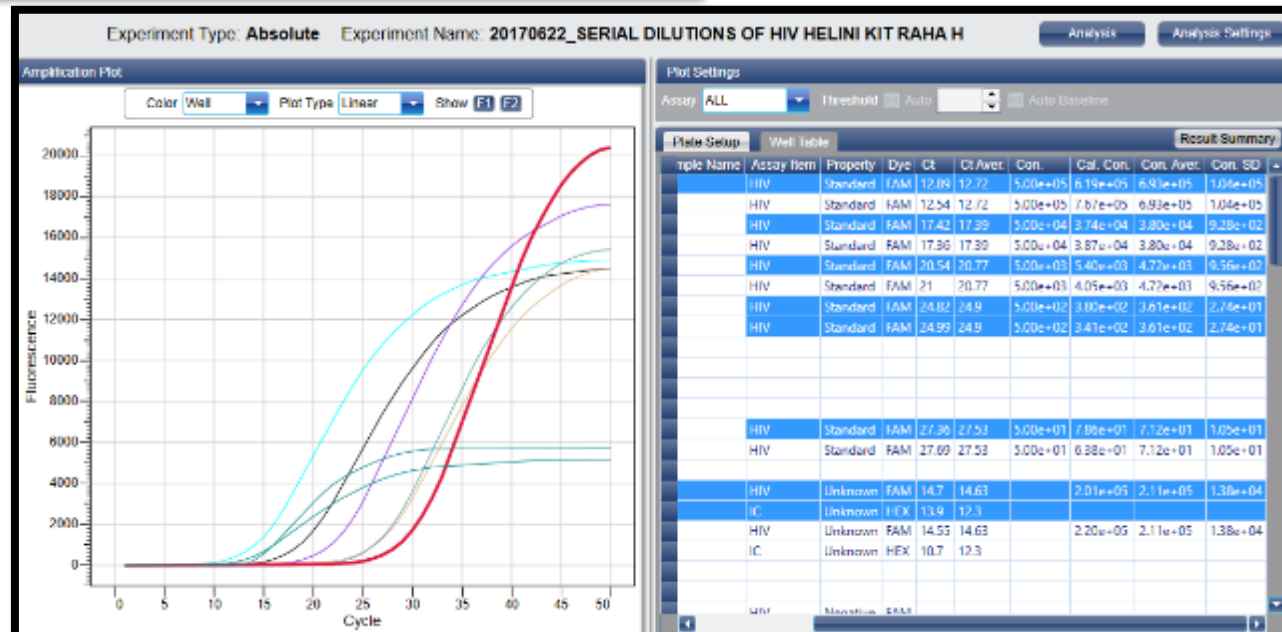
# Insta Q Real Time PCR Data – Clinical Diagnosis



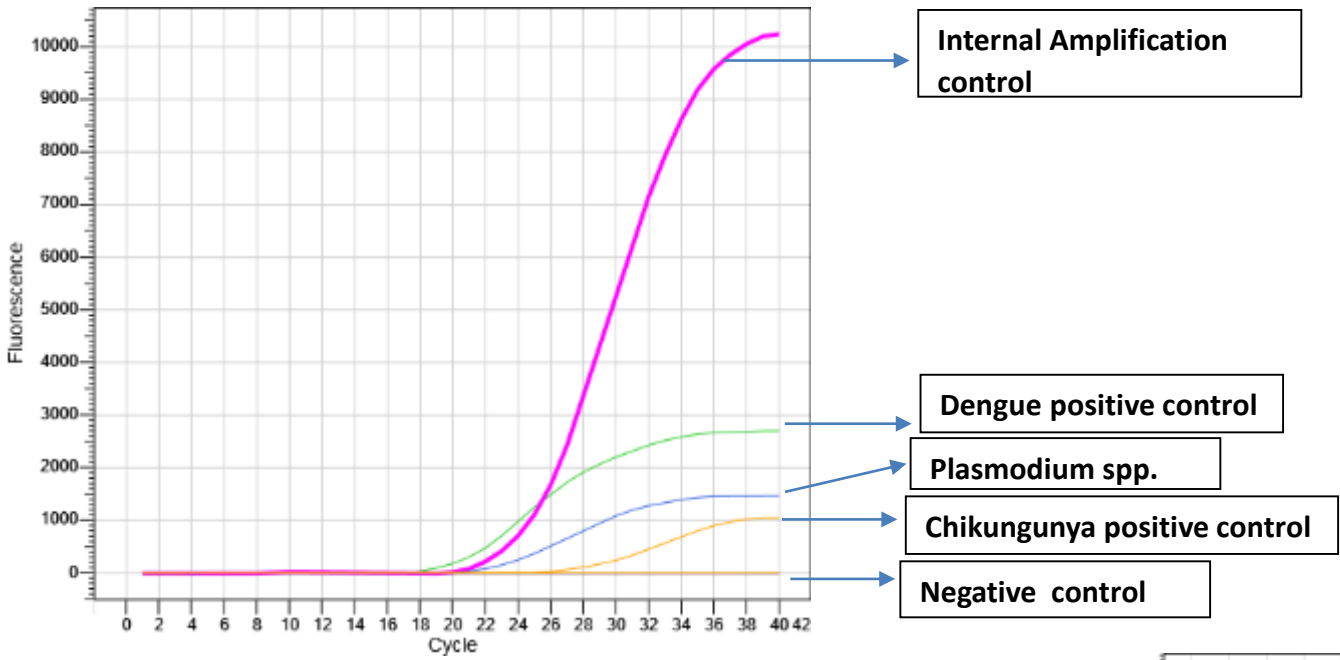
**HPV Genotyping for detection of 24 high risk types done in Vietnam using InstaQ96**



**HIV Viral Load testing done in MGM Hospital- Mumbai, India**

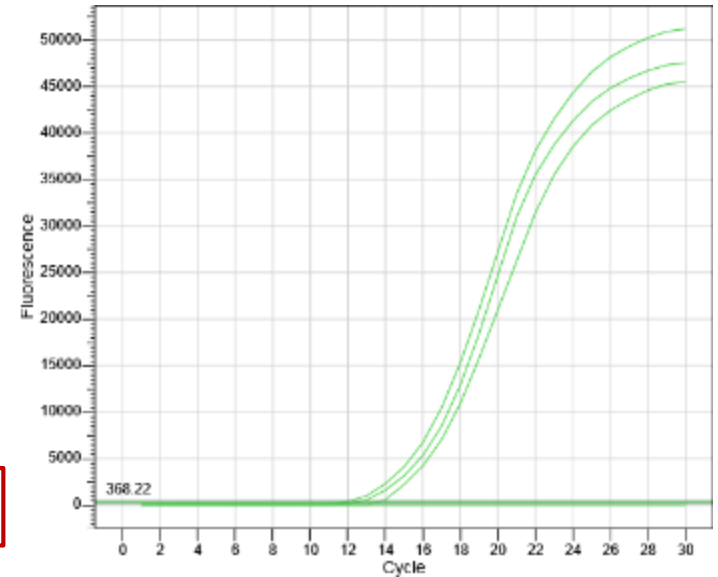


# Real Time PCR Data



**Multiplex data representing Simultaneous Detection of Febrile Fevers**

**MTB Detection**



**I am a PhD Student. Can I get a PCR Machine in a small budget?**



**Sure! The Wee Series Would be Perfect for you!**



**HIMEDIA  
PERSONNEL**



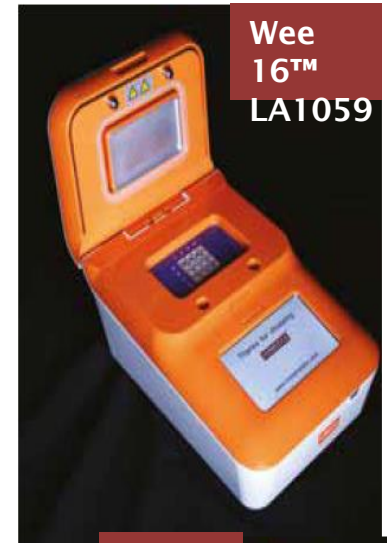
## Product introduction :

Wee 16 & Wee 32 uses Marlow(US) peltier. The product combines a variety of advanced technologies:

- Maximum Ramping rate is 5°C/s
- Android system;
- Color touch screen;
- Gradient function; Wifi module built-in;
- Support cell phone APP control;
- Email notification function;
- Big storage capacity and support USB device.

## Applications

- DNA Cloning
- Genetic Engineering
- Sequencing
- DNA based 'phylogeny'
- Hereditary diseases
- Genetic fingerprints (forensic)
- Diagnosis of 'infectious diseases'



**NEW**

# Wee-Vert™ Protein Electrophoresis System (LA1070)





**NEW**

# HiMedia's UV Transilluminators

- **Hi-UV™ Max [LA1067]:** Single wavelength (312nm)
- **Hi-UV™ Intense [LA1068]:** Single wavelength (312nm) with High & Low Intensity
- **Hi-UV™ DUO [LA1069]:** Dual wavelength (312nm & 365nm)

*Introducing  
New*

*Superior  
intensity with  
Auto shutdown  
facility*



LA1067



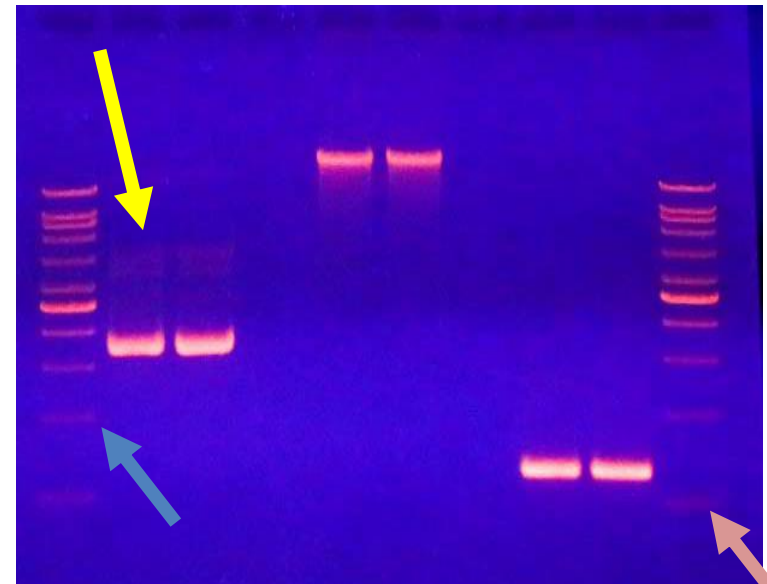


# Comparative data of HiMedia's Hi-UV™ Max Transilluminator with that of Competitor's

HiMedia's Hi-UV Max Transilluminator



Competitor's Gel Doc system



*Performance of HiMedia's Hi-UV™ Max Transilluminator is better than that of Competitor's Gel Doc System*



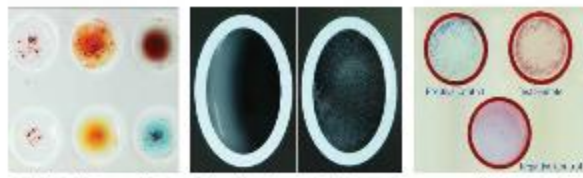


## HiPer<sup>®</sup> Teaching Kits



## SEROLOGY KITS

Blood grouping and titration kits are very beneficial for the students to get a hands-on experience in serological techniques.



1. Blood grouping kit (A, B, AB, O) 2. Agglutination kit (A, B, AB, O) 3. Titration kit (A, B, AB, O)

## MICROBIOLOGY KITS

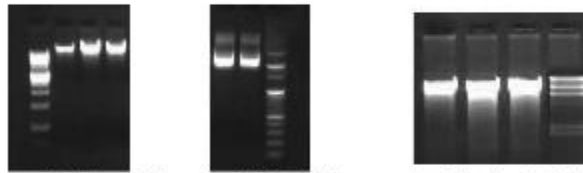
These kits are very useful for teaching the basics of microbial growth, bacterial growth curves, antibiotic sensitivity, phage titration, bacterial conjugation, antibiotic susceptibility and determination of MIC (Minimum Inhibitory Concentration).



1. Bacterial growth on agar 2. Phage titration showing plaques on a lawn of bacteria 3. Antibiotic susceptibility test showing zones of inhibition around antibiotic discs

## NUCLEIC ACID EXTRACTION KITS

Molecular Biology Teaching Kits have been developed to empower the students to the fundamentals of molecular biology and to be able to carry experiments like DNA, RNA, PCR extraction from various sources, gel electrophoresis, Digestion, Ligation, Transformation, Cloning, Southern blot hybridization, etc.



1. Agarose gel electrophoresis showing multiple bands 2. Agarose gel electrophoresis showing a single band 3. Agarose gel electrophoresis showing a single band

## BIOCHEMISTRY KITS

These teaching kits help to understand the basic biochemical and enzymatic reactions through hands-on activities. It includes qualitative and quantitative estimation of carbohydrates and proteins.



1. Benedict's test for reducing sugars 2. Benedict's test for reducing sugars 3. Biuret test for proteins 4. Biuret test for proteins

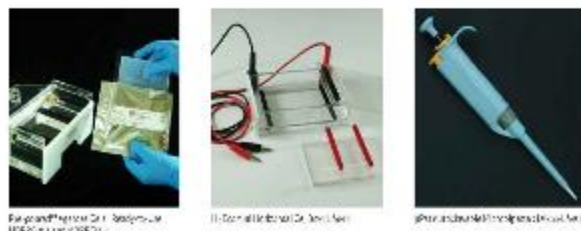
# HiPer™ Teaching Kits



HiMedia® has developed the HiPer™ series of teaching kits with the goal of enabling students from all disciplines of Biology to get an opportunity for hands-on skill building in acquiring laboratory experiences in accordance with the curriculum. The ever-increasing range of attempts to cover the vast subjects of Molecular Biology, Microbiology, Protein Assay, Biotechnology, Immunology and Chromatography for understanding the basic techniques in a very comprehensive and selective manner.



## RELATED PRODUCTS



1. Pipette tips 2. Pipette tips 3. Pipette tips

For the complete range of products please visit: [www.himedialabs.com](http://www.himedialabs.com)

HiMedia Laboratories Pvt. Ltd.  
www.himedialabs.com  
100, Sector 15, Gurgaon, Haryana, India  
Tel: +91 122 416 6100  
Fax: +91 122 416 6101  
Email: [info@himedia.com](mailto:info@himedia.com)

## IMMUNOLOGY KITS

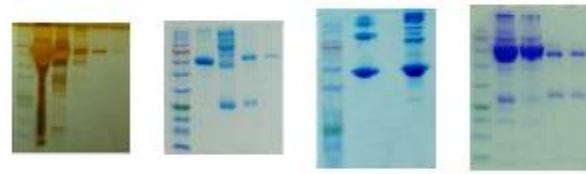
The designed the immunology teaching kits to focus on the student's practical experience in serology, immunology, e.g. antibody titration, immunodiffusion, immunoelectrophoresis, western blotting, ELISA etc.



1. Immunology kit (ELISA) 2. Immunodiffusion kit 3. Immunoelectrophoresis kit

## PROTEIN ANALYSIS KITS

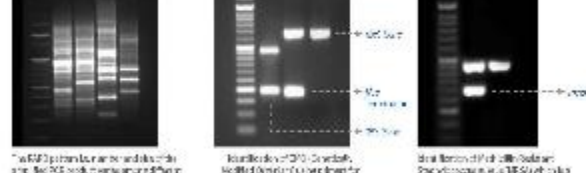
Protein Assay Teaching kits help to empower the students to learn SDS-PAGE, Native PAGE and Silver Staining methods.



1. SDS-PAGE 2. Native PAGE 3. Silver Staining

## PCR AMPLIFICATION KITS

A distinct effort has been given to impart the PCR technology as this became an essential part of diagnostic research. Limited steps required for the successful amplification of DNA are: 1. Denaturation 2. Annealing 3. Extension.



1. Agarose gel electrophoresis showing multiple bands 2. Agarose gel electrophoresis showing a single band 3. Agarose gel electrophoresis showing a single band

## CHROMATOGRAPHY KITS

The chromatography teaching kit is a valuable tool for the students to understand the basic principles of various separation processes of chromatography, e.g. Ion exchange, affinity, thin layer and gel filtration.



1. Ion exchange chromatography 2. Affinity chromatography 3. Thin layer chromatography

INTRODUCING....

**InstaNx™**  
Automated Nucleic acid purification system



# Insta Nx

Novel Extraction Solution for Liquid and Solid samples



THANK YOU!

