

***‘Rapid Pathogen Detection using
HiMedia’s Palm PCR™’***

Problems faced in Pathogen Detection?

- *On-site diagnosis not feasible*
- *Conventional microbiological methods are time consuming*
- *Culturing of organisms is hazardous*
- *Conventional Machines are not portable*

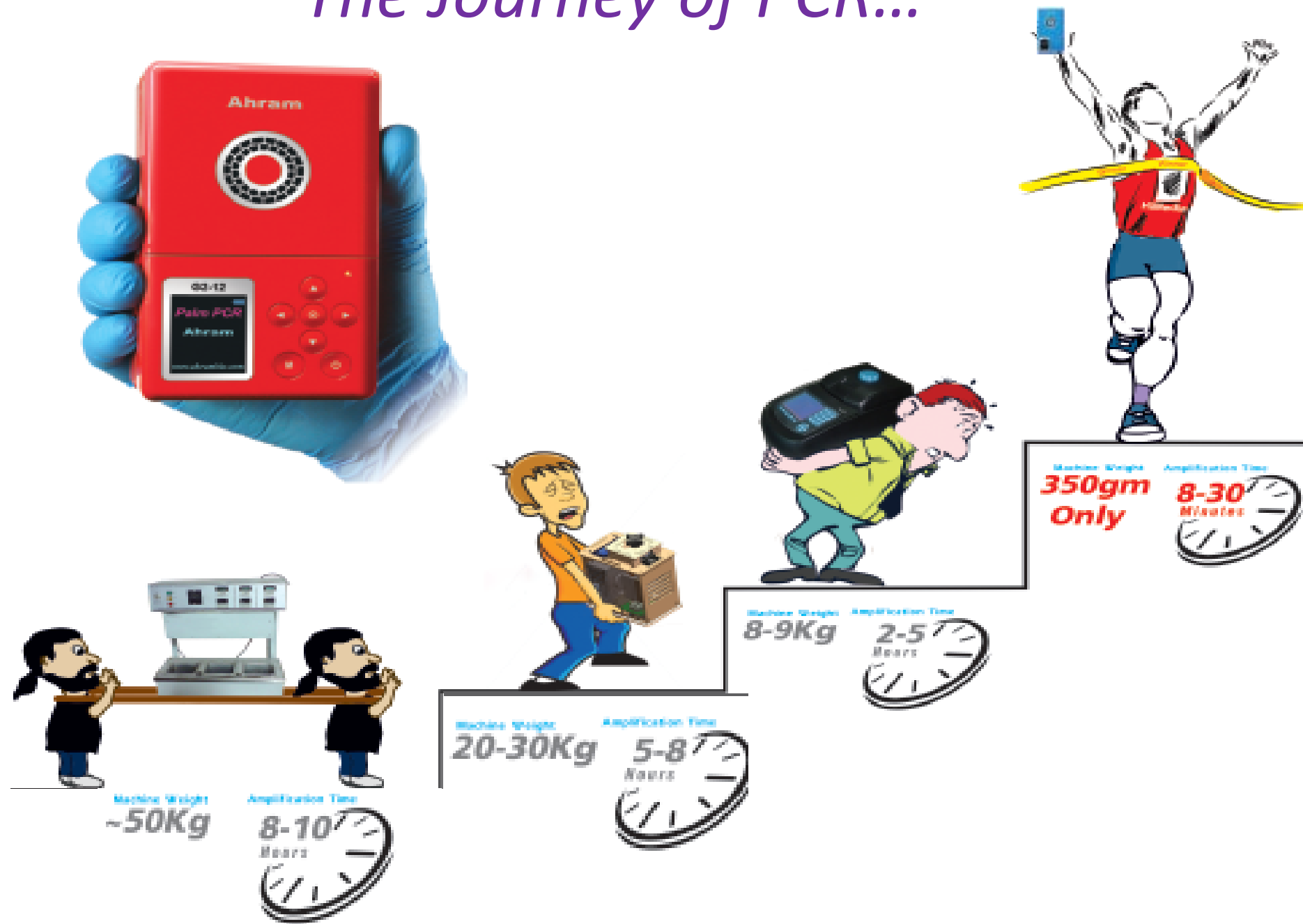
HiMedia addresses these problems with its PALM PCR™.



Palm PCR™



The Journey of PCR...



Palm PCR™ (LA998)

Redefining Speed & Portability

350
grams



Palm-Sized

CERTIFIED FOR



Republic
of Korea



European
Union

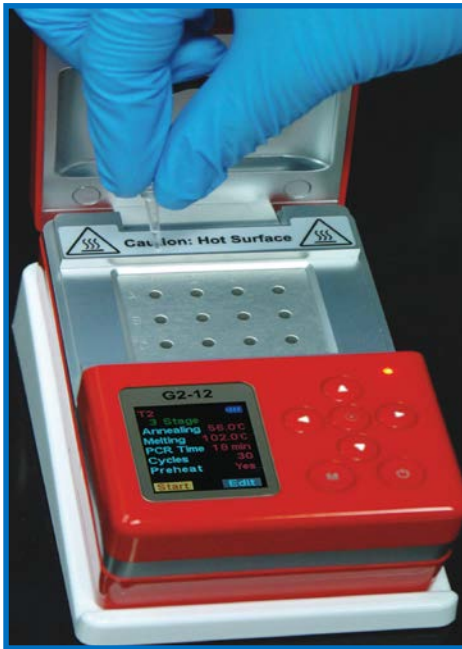
(FCC)

The United States,
Canada

State-of-the-Art Technology!

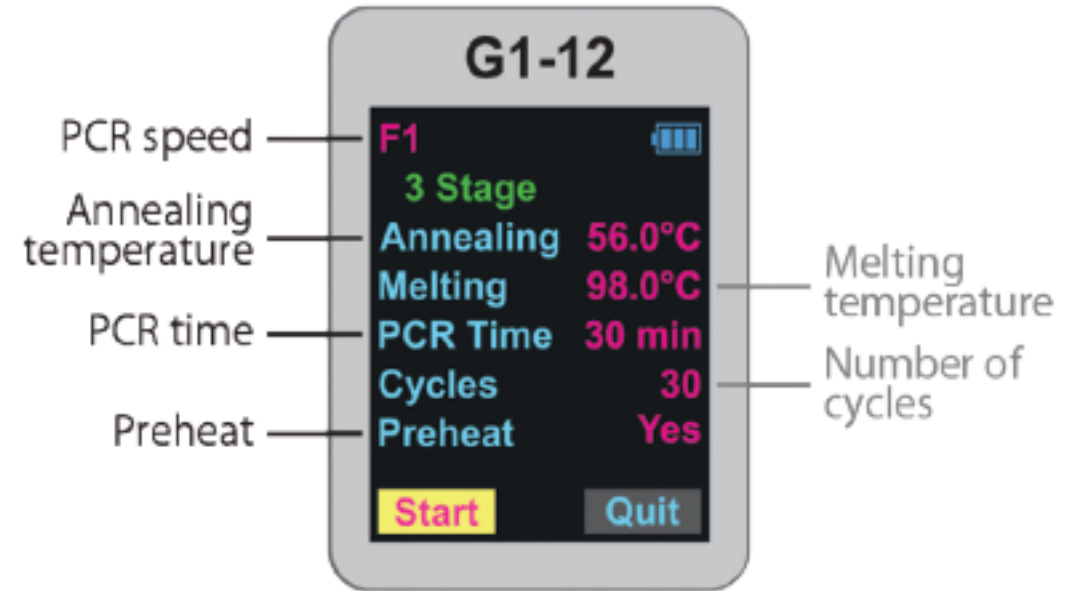
- Fully Portable and Light-weight
- Battery-powered (upto 4 hrs)
- Ultra-fast Amplification (8 mins)
- High Sensitivity (<10 copies)

Palm PCR™ (LA998)



T2 Mode Operation

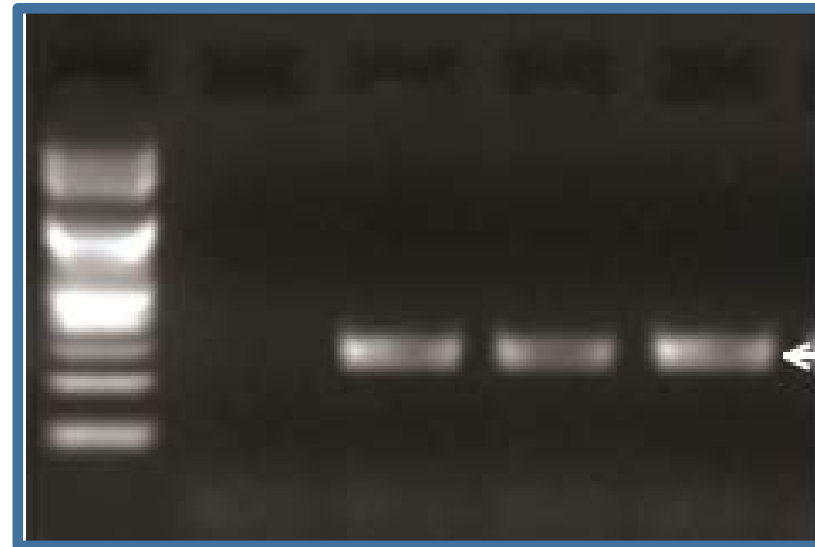
Protocol Display



Redefining Amplification Speed

Palm PCR™ (LA998)

SPEED



Salmonella spp.
294bp

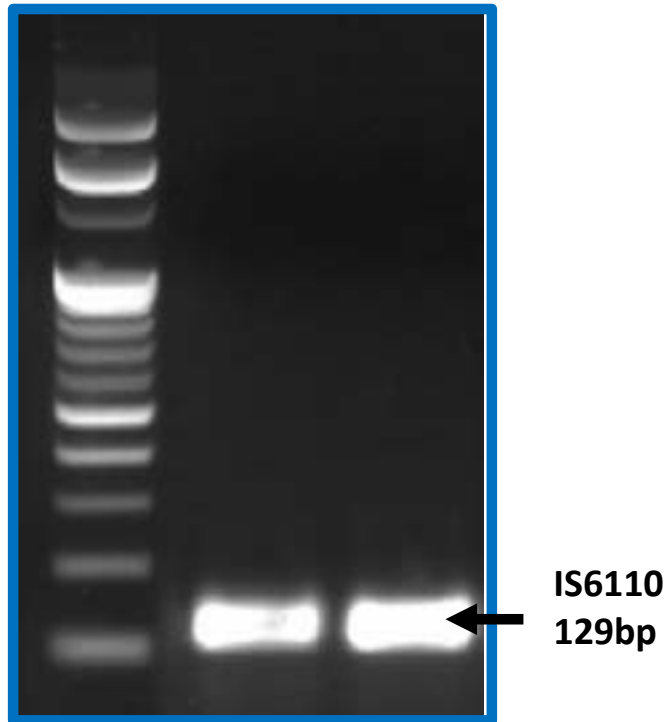
Salmonella typhimurium ATCC 14028

Ultrafast Amplification in *just 8 mins!*

Palm PCR™ in Clinical Diagnosis

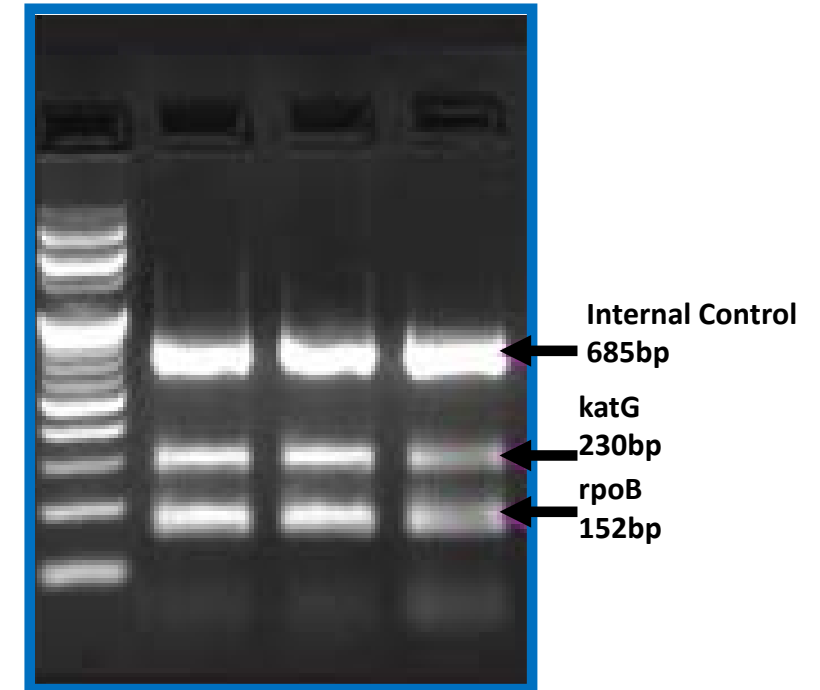
Palm PCR™ Applications

Clinical Diagnosis



M. tuberculosis Detection

PCR TIME : 10 minutes

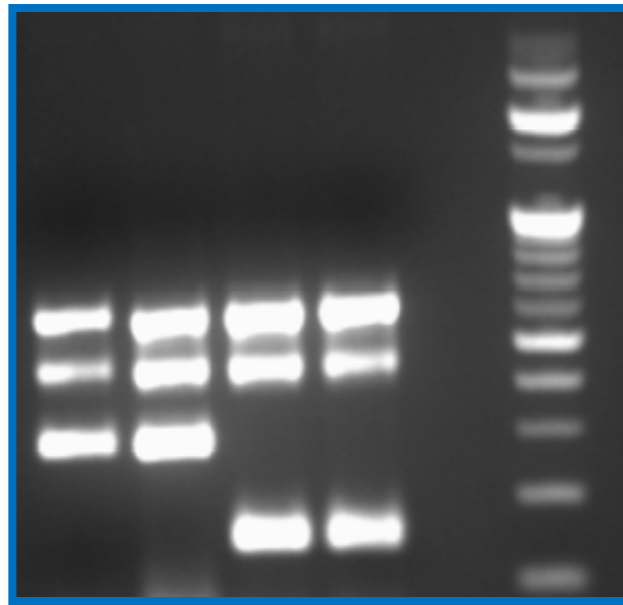


MDR-TB Detection

PCR TIME : 18 minutes

Palm PCR™ Applications

Clinical Diagnosis



16S rRNA – 597 bp

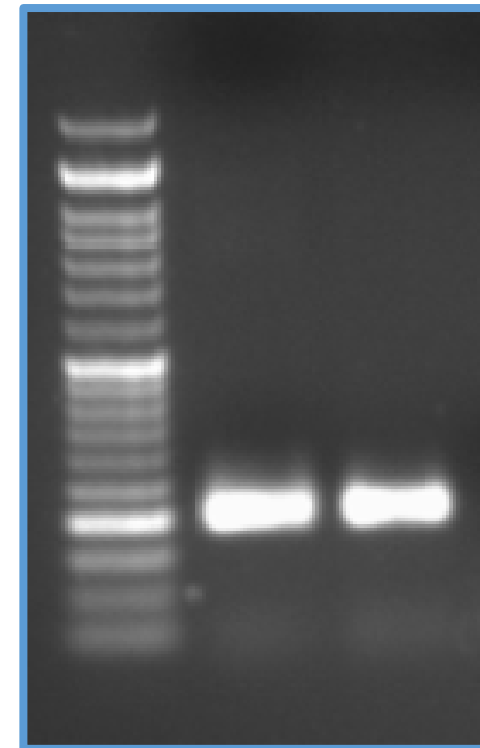
fem A – 450 bp

mec A – 279 bp

PVL – 151 bp

MRSA Detection

PCR TIME : 24 minutes



← 204 bp

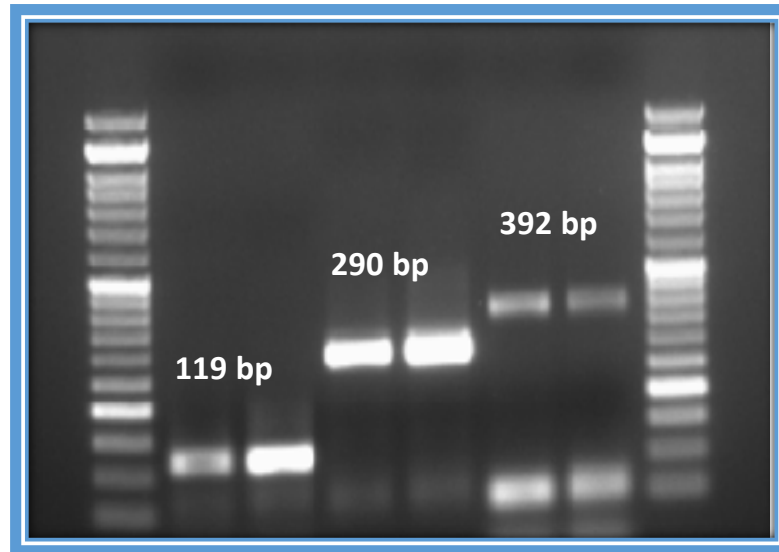
Malaria- *P. falciparum*

PCR TIME : 18 minutes

Palm PCR™ Applications

Clinical Diagnosis

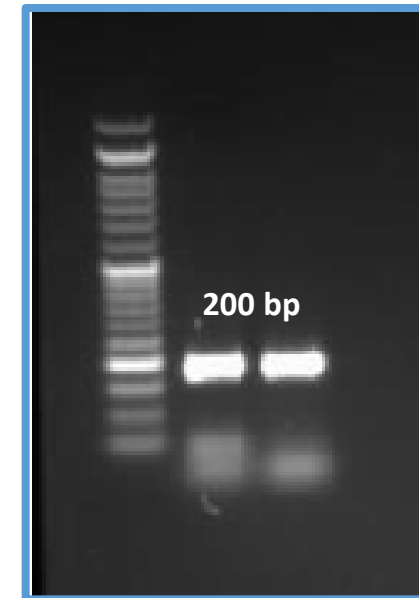
Dengue



Dengue positive sample

PCR TIME : 18 minutes

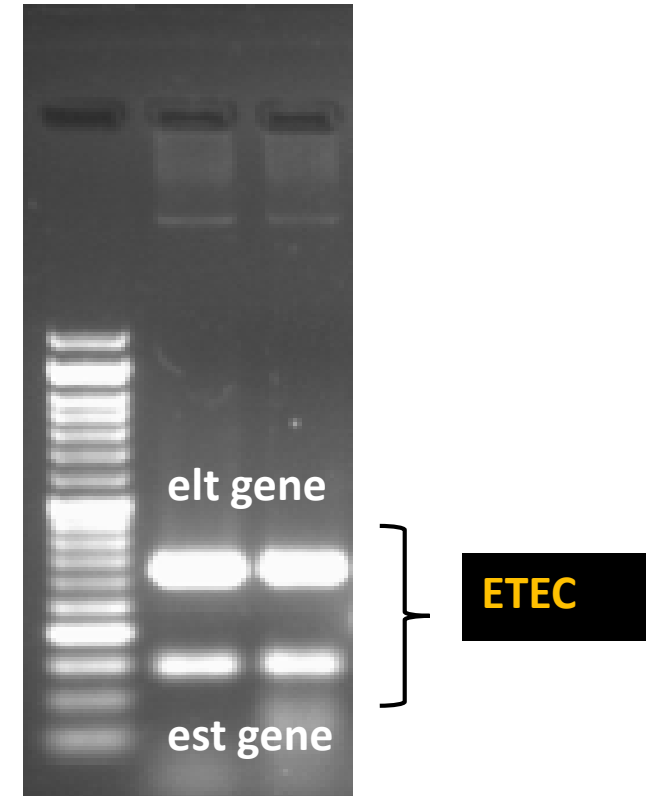
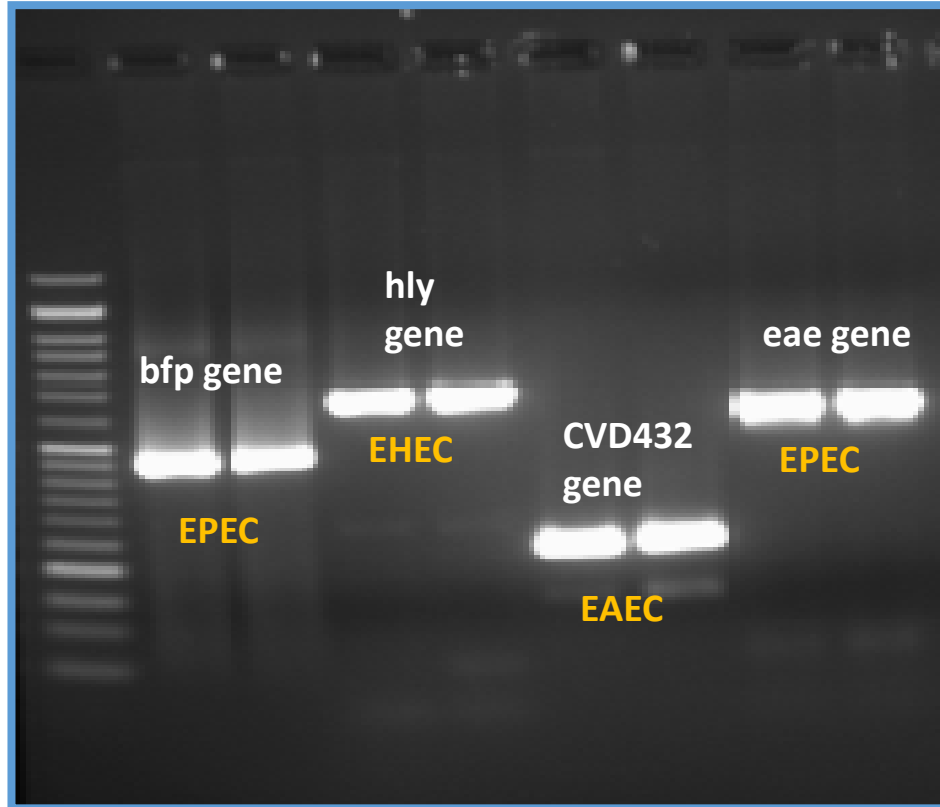
Chikungunya



PCR TIME : 18 minutes

Palm PCR™ Applications

Clinical Diagnosis Diarrheagenic E.coli – A study of 136 stool samples



PCR TIME : 24 minutes

Research Application

Palm PCR™ Applications

Research Applications

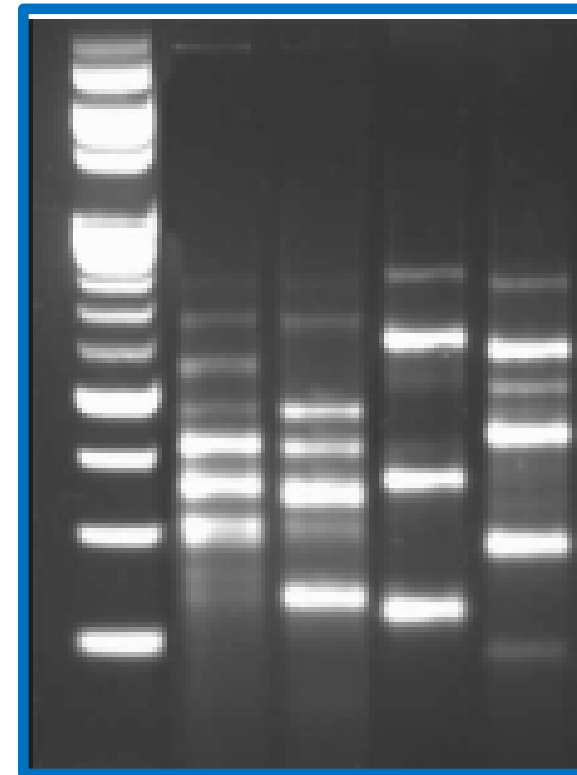
*Normal RAPD experiment takes
more than 3 hours*



using
Palm PCR™
Machine



RAPD



*PCR TIME
30 minutes!*



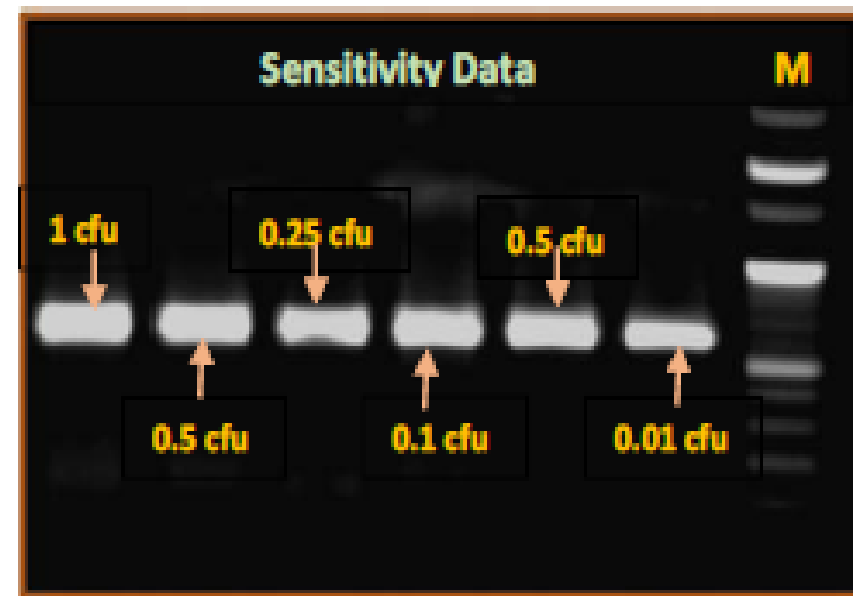
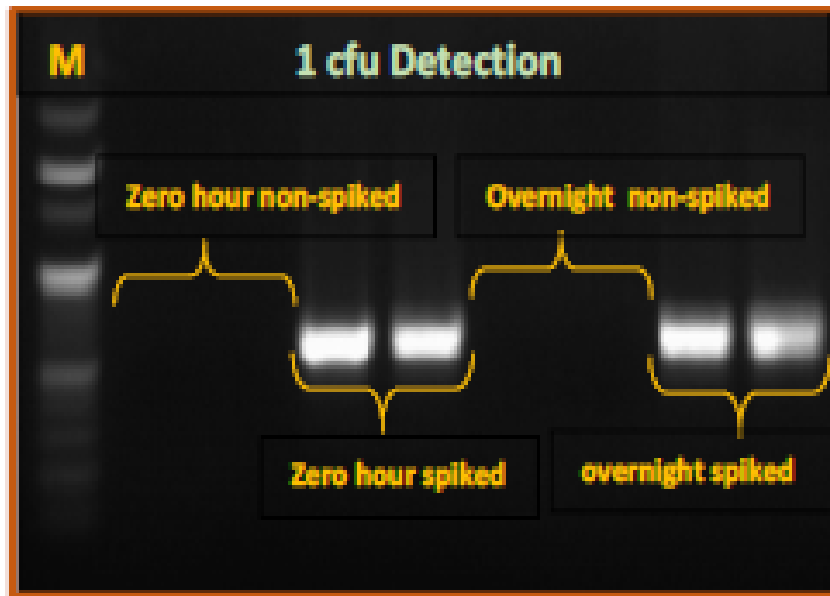
*E. coli 0103 K:H8, E. coli K12,
B. cereus, B. subtilis*

Food Pathogen Detection

FOOD PATHOGEN DETECTION (Palm PCR™) PCR based

Salmonella spp. Detection

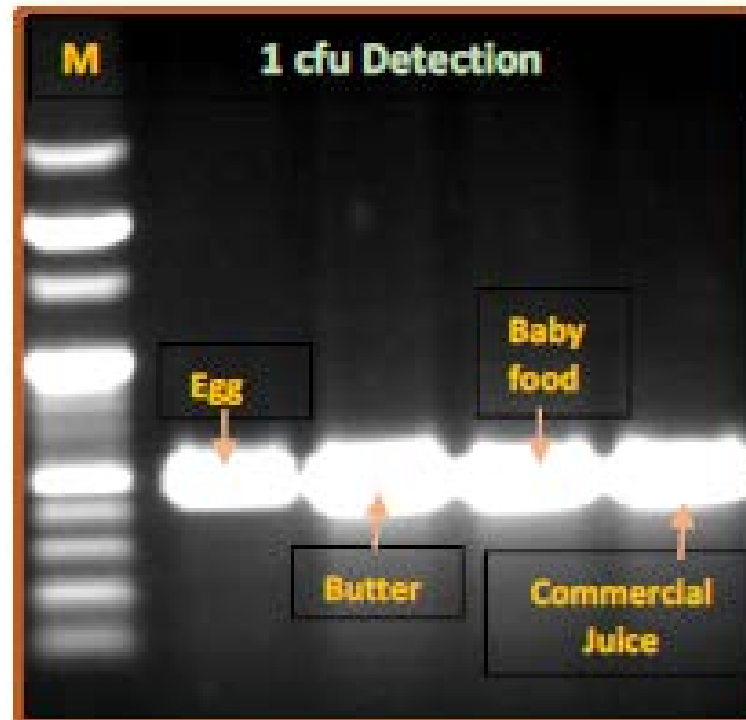
Detection in Commercial Milk Powder (Spiked)



FOOD PATHOGEN DETECTION (Palm PCR™) PCR based

E.coli O157:H7 Detection

Detection in different food types (Spiked)



Palm PCR™ (LA998)

Palm PCR Kits and Accessories

Product Name	Product Code	Packing
Palm PCR Kit	MBPCR031	25R* 50R*
Palm E.coli 0157:H7 Detection Kit	MBPCR032	25R* 50R*
Palm Salmonella Detection Kit	MBPCR033	25R* 50R*
Palm Mycobacterium tuberculosis Detection Kit	MBPCR034	25R* 50R*
Palm Malaria Detection Kit	MBPCR035	25R* 50R*
Palm Listeria monocytogene Detection Kit	MBPCR036	25R* 50R*
Palm Multi Drug Resistant Mycobacterium tuberculosis (MDR-TB) Detection Kit	MBPCR037	25R* 50R*
Palm PCR Sample Tube Rack (Holding Capacity : 6 X 8 Places)	PW1299	1 NO
Palm PCR Centrifuge Adaptor (Adaptor for holding Palm PCR tube during centrifugation).	PW1280	1 PK

*Reaction

