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# InstaNX®

HiGenoMB® HIMEDIA Unzipping Genes

## Automated Nucleic Acid Extractor

**Effortless DNA/RNA Extraction**

EWC DIAGNOSTICS

## Description:

The Insta NX® Instrument is a fully automated nucleic acid purification system. Utilizing the Innovative Super -S membrane column method, it can purify nucleic acids with high yield and purity from a wide range of samples. In addition, through our Innovative Trinity Technology, the purification procedure can be done within a small and straight-line cartridge without centrifuge and vacuum pump. Up to 12 samples can be processed in a single run using independent robotic arms for minimising contamination. Also, contamination-free optimum extraction can be achieved with the use of pre-filled reagents, disposables (Trinity Technology) and integrated UV sterilization.

### The automated steps performed by the Insta NX® Instrument include :

- Sample lysis in the presence of a specially formulated Lysis Buffer on the heating block
- Binding of nucleic acids to Super -S membrane in the column
- Washing of the bound target molecules to remove other cellular components
- Elution of the DNA/RNA into the elution tubes

## Limitations in other Technology

### Problems with magnetic system

1. Bad integrity
2. Inhibitor carry-over
3. Magnetic beads carry over

### Problems with spin column system

1. Complex setup procedure
2. Non-Streamline workflow
3. Cross contamination issue

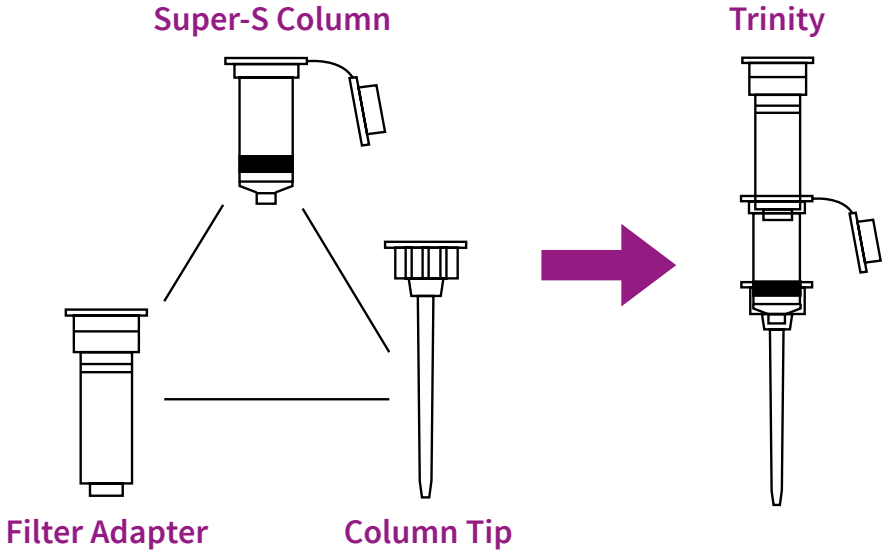
## Why Insta NX® is better?

- Newly designed innovative Super -S membrane technology
- Easy-to-use and easy-to-maintain system operation
- Wide range of applications for DNA, RNA and Viral DNA/RNA extraction from various types of samples
- Ready to use with the prefilled reagent cartridges
- Stream-line workflow to avoid cross contamination in same or different runs
- Integrated UV light for sterilization of internal parts of the machine
- Inhibitor free DNA / RNA

# Trinity Technology

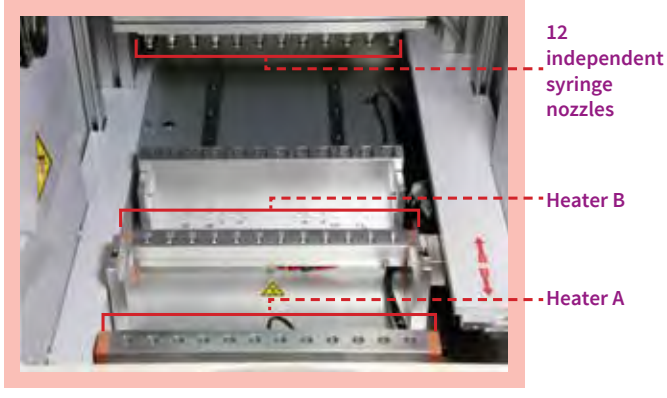
## Our innovative technology to purify nucleic acids!

We have developed the Trinity, a combination of Super-S Column, Filter Adapter and Column Tip. The innovative Super-S column utilizes a Bi-directional flow technology to allow Automation of DNA and RNA extraction. Differential air pressure methology ensures an efficient flow of lysate, wash buffers and elution solutions to simultaneously obtain good yield and purity of extracted nucleic acids. A high quality DNA/RNA is obtained for further downstream analysis.

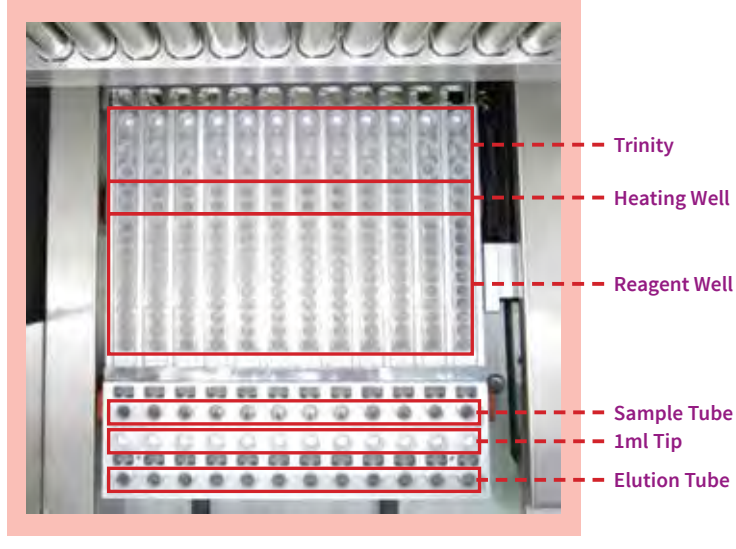



# Worktable of Insta NX®

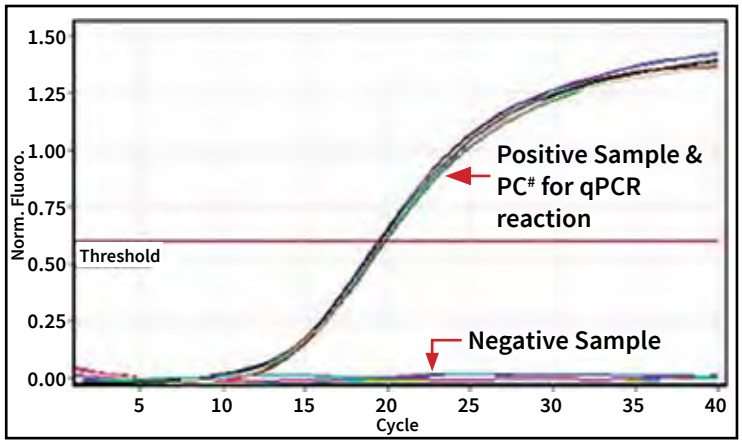
### Layout of Insta NX® machine




### Layout of Insta NX® tray



## Cross contamination free DNA/RNA in same run



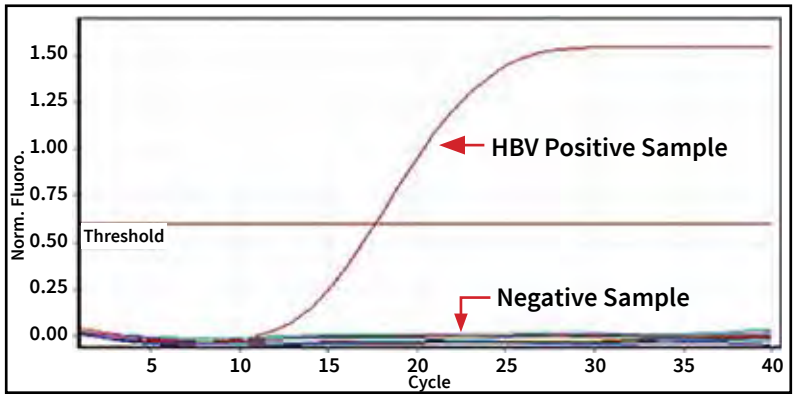

- Positive samples for HBV were placed in tubes labelled with even numbers and negative samples were placed in tubes labelled with odd numbers during the same run.
- qPCR was performed using DNA extracted from Insta NX.
- Only positive sample was amplified during qPCR.
- No Cross contamination was observed.
- Provision for UV sterilization of Insta NX to avoid cross contamination.

**+ Positive Sample :** Plasma sample with $7x10^6$ copies of HBV (mean of $C_t$* = 19.7)
**- Negative Sample :** Nuclease free water

| No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample | - | + | - | + | - | + | - | + | - | + | - | + |

## Carry-over contamination free DNA/RNA between consecutive runs

**Combined Data ( First Run + Second Run)**




**First Run :- (+) Positive Sample :** HBV Positive Sample

| No. | 1 |
|---|---|
| Sample | + |

**Second Run :- (-) Negative Sample :** Nuclease free water

| No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample | - | - | - | - | - | - | - | - | - | - | - | - |

- To check cross contamination between consecutive runs, 2 different protocols were performed.
  1) HBV positive samples in **first run**.
  2) Nuclease free water in **second run**.
- qPCR was performed using DNA extracted from Insta NX.
- HBV positive sample was amplified. Nuclease free water sample did not show any amplification.
- No cross contamination was observed between different runs.
- Provision for UV sterilization of Insta NX to avoid cross contamination.

*$C_t$ - Threshold value
#PC - Positive control

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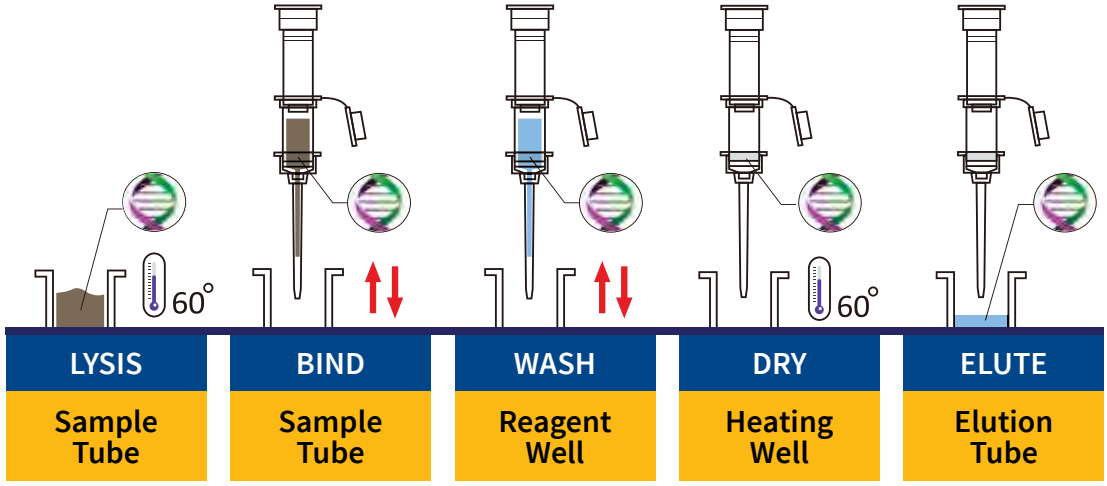
# Test Parameters :

| Sample | Pre- processing Sample volume | Pre- processing timew | Processing time | Yield | Purity |
|---|---|---|---|---|---|
| Clinical samples | | | | | |
| Dengue Serum | 140 µl | 5 mins | | 10-50 ng/µl | |
| Whole Blood | 200 µl | 5 mins | | 10-50 ng/µl | |
| WBC's | 200 µl | 5 mins | | 10-50 ng/µl | |
| Urine Sample | 5 ml | 10 mins | | 10-50 ng/µl | |
| Stool Sample | 250 mg | 45 mins | | 10-50 ng/µl | |
| Sputum Sample | 500 µl | 40 mins | | 10-50 ng/µl | |
| Plasma | 200 µl | 5 mins | | 10-50 ng/µl | |
| CSF | 200 µl | 45 mins | | 10-50 ng/µl | |
| HPV Endocervical Sample | 200 µl | 5 mins | | 10-50 ng/µl | |
| Food Samples and Beverages | | | | | |
| Spice Mix | 1.5 ml | 30 mins | | - | |
| Milk Powder | 1.5 ml | 30 mins | 1hr 15 min | - | 1.6 to 1.9 |
| Fruit Juices | 1.5 ml | 30 mins | | - | |
| Whole Milk | 1.5 ml | 30 mins | | - | |
| Chocolates | 1.5 ml | 30 mins | | - | |
| Water | 400 µl | 1 hr | | 10-50 ng/µl | |
| Chicken Tissue | 25 mg | 5 mins (followed by 2 hrs of incubation) | | 10-50 ng/µl | |
| Butter | 0.5 gm | 40 mins | | - | |
| Pork Tissue / Fat | 25 mg | 5 mins (followed by 2 hrs of incubation) | | 10-50 ng/µl | |
| Seafood | 25 mg | 5 mins (followed by 2 hrs of incubation) | | 10-50 ng/µl | |
| Veterinary Samples | | | | | |
| Horse Serum | 200 µl | 5 mins | | 10-50 ng/µl | |
| Goat Tissue | 25 mg | 5 mins (followed by 2 hrs of incubation) | | 10-50 ng/µl | |
| Environmental Samples | | | | | |
| Rice Root | 80 mg | 35 mins | | 10-50 ng/µl | |
| Sugarcane Leaf | 300 mg | 45 mins | | 10-50 ng/µl | |
| Banana Leaf | 300 mg | 45 mins | | 10-50 ng/µl | |
| Water | 1 litre | 15 mins | | 10-50 ng/µl | |
| Pomegranate Leaf | 300 mg | 45 mins | | 10-50 ng/µl | |
| Wheat Seedling/Rice Seedling | 100 mg | 35 mins | | 10-50 ng/µl | |
| Watermelon Seeds | 200 mg | 35 mins | | 10-50 ng/µl | |
| Onion Bulb | 350 mg | 35 mins | | 10-50 ng/µl | |
| Soil | 250 mg | 20 mins | | 10-50 ng/µl | |
| Bacteria | 1.5 ml | 45 mins | | 10-50 ng/µl | |
| Fungus | 300 mg | 40 mins | | 10-50 ng/µl | |
| Forensic Samples | | | | | |
| Bone | 200 mg | Day 1- Decalcification for overnight Day 2- 5 mins | | 10-50 ng/µl | |
| Tooth | 200 mg | Day 1- Decalcification for overnight Day 2- 5 mins | | 10-50 ng/µl | |
| Buccal Swab | 0.5 $cm^2$ | 20 mins | | 10-50 ng/µl | |
| Sperm Swab | 0.5 $cm^2$ | 20 mins | | 10-50 ng/µl | |
| Chewing Gum | 0.5 $cm^2$ | 20 mins | | 10-50 ng/µl | |
| Insect Samples | | | | | |
| Honey Bee | 50 mg | 35 mins | | 10-50 ng/µl | |

## Streamline workflow




## Setup worktable

1. Place cartridge

2. Place 1 ml Tip

3. Place Elution tube

4. Place rack into system

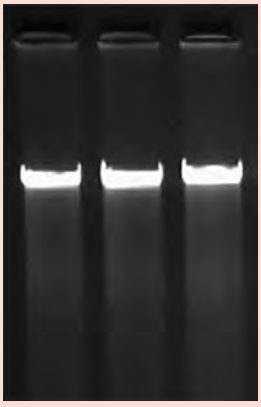
5. Close the lid and Start run

# Extraction & PCR/RT-PCR/ Real time PCR Data on Insta NX®



## Blood

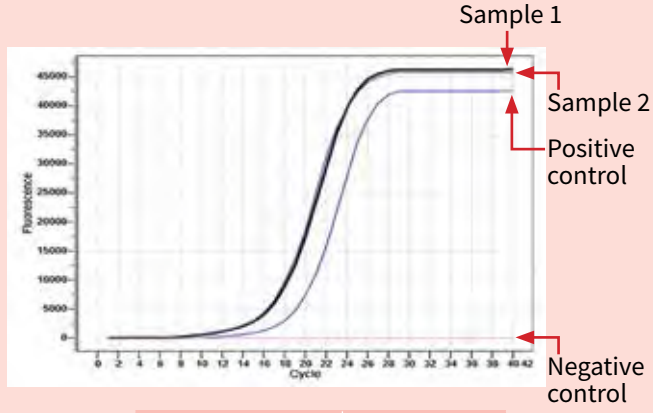
### Human DNA




**Yield and Purity**

| Lanes | Yield (ng/ µl) | Purity ($A_{260}$/ $A_{280}$) | Purity ($A_{260}$/ $A_{230}$) |
|---|---|---|---|
| 1 | 16.1 | 1.61 | 0.80 |
| 2 | 16.1 | 1.77 | 1.21 |
| 3 | 16.2 | 1.90 | 1.38 |

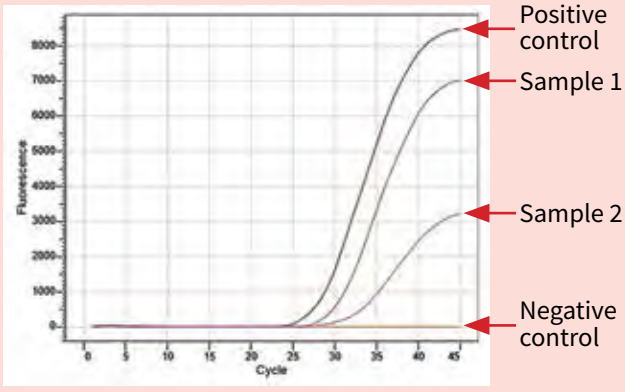
### Human DNA (Real-Time PCR)




| Sample | $C_t$ value |
|---|---|
| Positive control | 13.39 |
| Blood Sample 1 | 12.91 |
| Blood Sample 2 | 11.92 |
| Negative control | N/A |

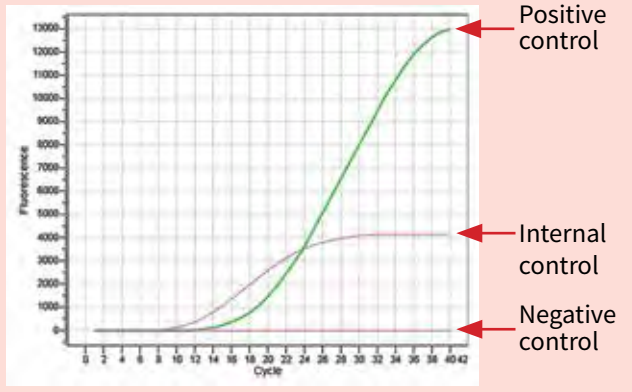
## Blood

### H1N1 RNA (Real-Time PCR)




| Sample | $C_t$ value |
|---|---|
| Positive control | 24.5 |
| H1N1 Sample 1 | 27 |
| H1N1 Sample 2 | 32.39 |
| Negative control | N/A |

### Dengue Viral RNA (Real-Time PCR)




| Sample | $C_t$ value |
|---|---|
| Positive control | 16.72 |
| Internal control | 10.64 |
| Negative control | N/A |

* Positive control - DNA extracted manually * Sample - DNA extracted by Insta NX®

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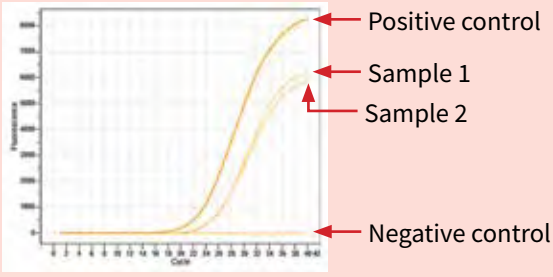
Clinical Samples

## Blood

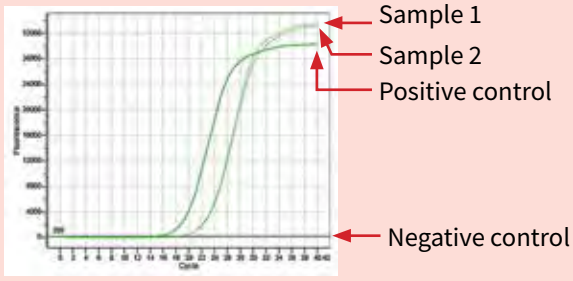
### Malarial DNA (Real-Time PCR)




| Sample | $C_t$ value | Sample | $C_t$ value |
|---|---|---|---|
| Positive control | 20.03 | Malarial sample 2 | 23.23 |
| Malarial sample 1 | 23.06 | Negative control | N/A |

## Cerebral Spinal Fluid

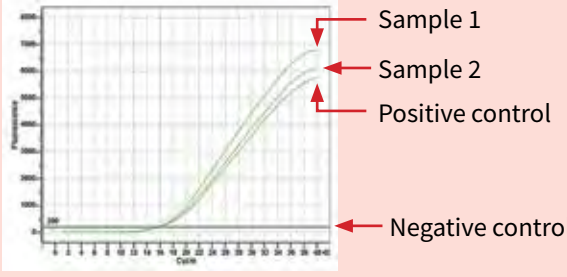
### Human CSF– GAPDH (Real-Time PCR)




| Sample | $C_t$ value | Sample | $C_t$ value |
|---|---|---|---|
| Positive control | 15.35 | Serum sample 2 | 18.59 |
| Serum sample 1 | 18.61 | Negative control | N/A |

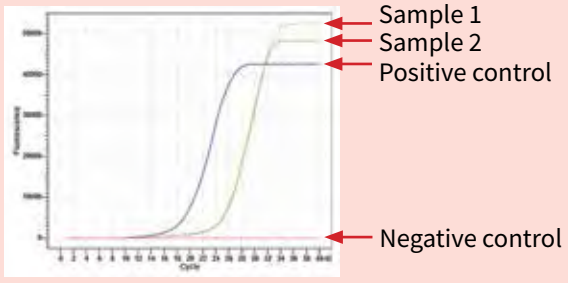
## Serum

### HBV Viral RNA (Real-Time PCR)




| Sample | $C_t$ value | Sample | $C_t$ value |
|---|---|---|---|
| sample 1 | 15.82 | Positive control | 15.97 |
| sample 2 | 16.04 | Negative control | N/A |

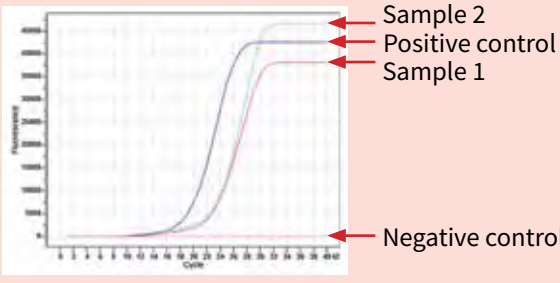
### Human Serum DNA (Real-Time PCR)




| Sample | $C_t$ value | Sample | $C_t$ value |
|---|---|---|---|
| Positive control | 13.39 | Serum sample 2 | 17.49 |
| Serum sample 1 | 16.76 | Negative control | N/A |

## Plasma

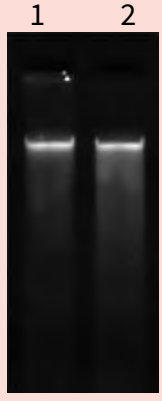
### Human Plasma DNA (Real-Time PCR)




| Sample | $C_t$ value | Sample | $C_t$ value |
|---|---|---|---|
| Positive control | 13.39 | Plasma sample 2 | 12.84 |
| Plasma sample 1 | 14.84 | Negative control | N/A |

## Sputum

### Sputum DNA




**Yield and purity**

| Lanes | Yield (ng/µl) | Purity ($A_{260}$/$A_{280}$) |
|---|---|---|
| 1 | 9.1 | 1.83 |
| 2 | 17.2 | 1.90 |

* Positive control - DNA extracted manually * Sample - DNA extracted by Insta NX®



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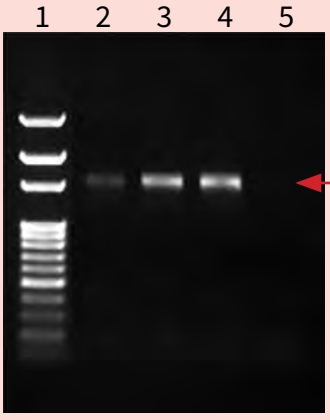
Clinical Samples

## Urine

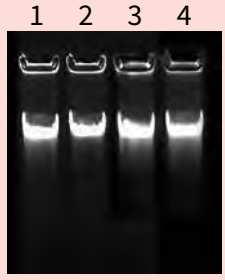
### Urine DNA (Semi-Q PCR)




| Lanes | Content |
|---|---|
| 1 | 100 bp Ladder |
| 2 | Positive control |
| 3 | Urine sample 1 |
| 4 | Urine sample 2 |
| 5 | Negative control |

## Stool

### Human Stool DNA



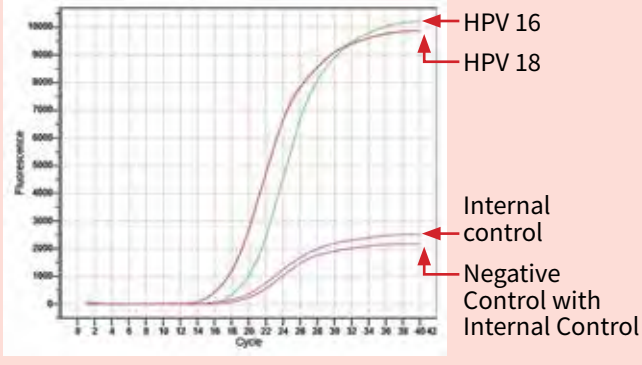

**Yield and Purity**

| | Lanes | Yield (ng/µl) | Purity ($A_{260}$/$A_{280}$) | Purity ($A_{260}$/$A_{230}$) |
|---|---|---|---|---|
| Extracted using InstaNX™ | 1 | 82.57 | 1.72 | 1.17 |
| | 2 | 80.37 | 1.75 | 1.45 |
| Extracted Manually | 3 | 61.91 | 1.69 | 1.72 |
| | 4 | 62.20 | 1.78 | 1.23 |

Clinical Samples

## Endocervical epithelial cells

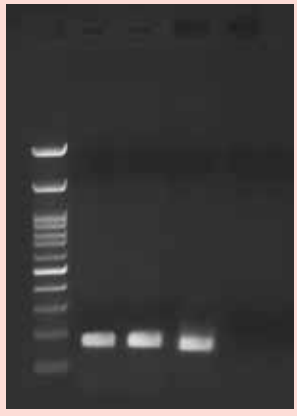
### HPV DNA (Real-Time PCR)




| Sample | $C_t$ value |
|---|---|
| HPV 16 | 17.37 |
| HPV 18 | 14.95 |
| Internal control | 19.6 |
| Negative Control with Internal Control | 18.53 |

## Honey Bee

### Honey Bee DNA (Semi-Q PCR)



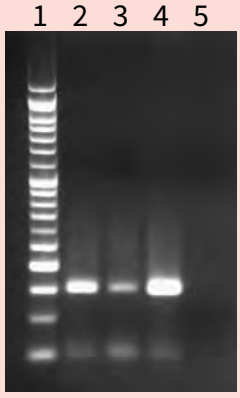

| Lanes | Content |
|---|---|
| 1 | 100 bp Ladder |
| 2 | Honey Bee sample 1 |
| 3 | Honey Bee sample 2 |
| 4 | Positive control |
| 5 | Negative control |

Insect Sample

* Positive control - DNA extracted manually * Sample - DNA extracted by Insta NX®

## Hair

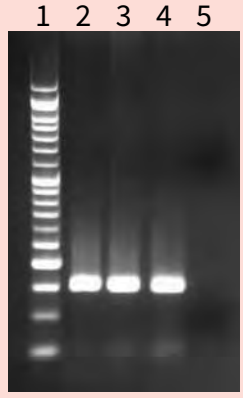
### Hair DNA (Semi-Q PCR)




| Lanes | Content |
|---|---|
| 1 | 50 bp Ladder |
| 2 | Hair DNA Sample 1 |
| 3 | Hair DNA Sample 2 |
| 4 | Positive control |
| 5 | Negative control |

## Sperm

### Sperm DNA (Semi-Q PCR)




| Lanes | Content |
|---|---|
| 1 | 50 bp Ladder |
| 2 | Sperm DNA manual |
| 3 | Sperm DNA Insta NX |
| 4 | Positive control |
| 5 | Negative control |

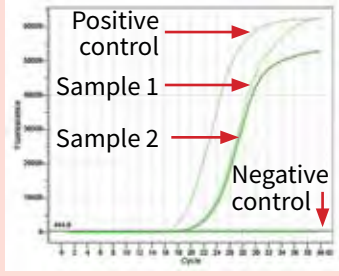
## Tooth

### Tooth DNA (Semi-Q PCR)

| Lanes | Content |
|---|---|
| 1 | 50 bp Ladder |
| 2 | Tooth sample 1 |
| 3 | Tooth sample 2 |
| 4 | Positive control |
| 5 | Negative control |

## Bone

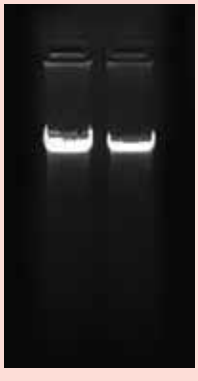
### Bone DNA (Real-Time PCR)




| Sample | $C_t$ value |
|---|---|
| Positive Control | 16.97 |
| Bone sample 1 (DNA extracted using Insta NX®) | 18.19 |
| Bone sample 2 (DNA extracted manually) | 18.73 |
| Negative Control | N/A |

## Buccal Swab

### Buccal DNA

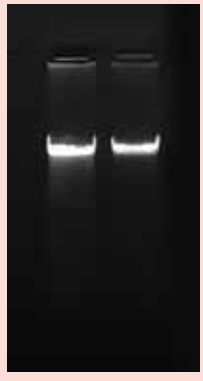



**Yield and Purity**

| Lanes | Yield (ng/µl) | Purity ($A_{260}/A_{280}$) | Purity ($A_{260}/A_{230}$) |
|---|---|---|---|
| 1 | 40.36 | 1.86 | 3.88 |
| 2 | 32.85 | 1.88 | 3.70 |

## Chewing Gum

### Chewing Gum DNA




**Yield and Purity**

| Lanes | Yield (ng/µl) | Purity ($A_{260}/A_{280}$) | Purity ($A_{260}/A_{230}$) |
|---|---|---|---|
| 1 | 23.46 | 1.78 | 1.35 |
| 2 | 45.07 | 1.80 | 1.96 |

* Positive control - DNA extracted manually * Sample - DNA extracted by Insta NX®

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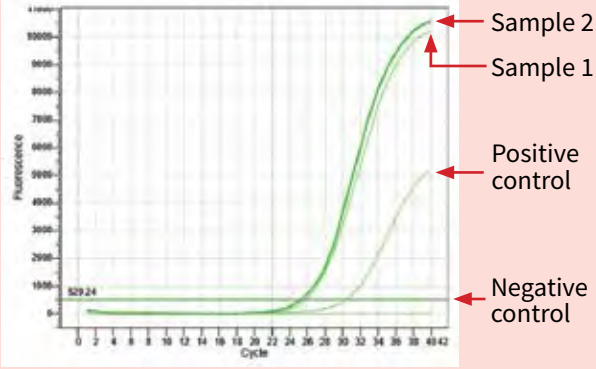
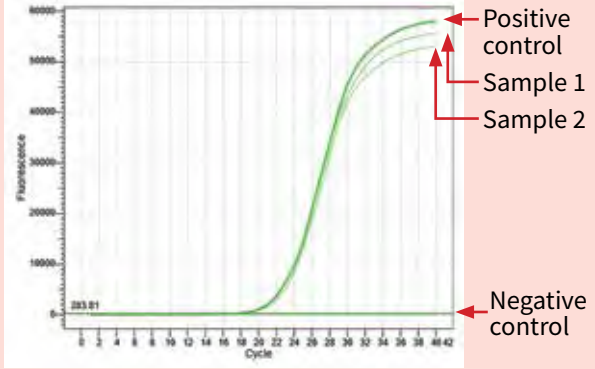
# Horse

## Horse serum DNA (Real-Time PCR)




| Sample | $C_t$ value |
|---|---|
| Positive Control | 30.48 |
| Horse serum sample 1 | 25.89 |
| Horse serum sample 2 | 25.35 |
| Negative Control | N/A |

## Horse Blood RNA (Real-Time PCR)




| Sample | $C_t$ value |
|---|---|
| Positive Control | 18.6 |
| Horse blood sample 1 | 18.31 |
| Horse blood sample 2 | 18.04 |
| Negative Control | N/A |

# Goat

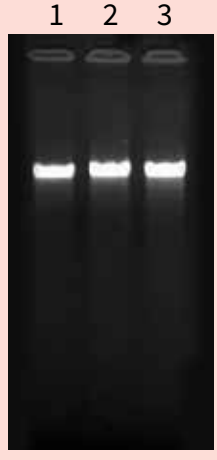
## Goat Tissue DNA

### Yield and Purity

| Lanes | Yield (ng/µl) | Purity ($A_{260}$/ $A_{280}$) | Purity ($A_{260}$/ $A_{230}$) |
|---|---|---|---|
| 1 | 12.92 | 1.68 | 1.24 |
| 2 | 19.84 | 1.62 | 2.49 |
| 3 | 16.55 | 1.65 | 1.65 |

# Cow

## Cow Dung DNA




### Yield and Purity

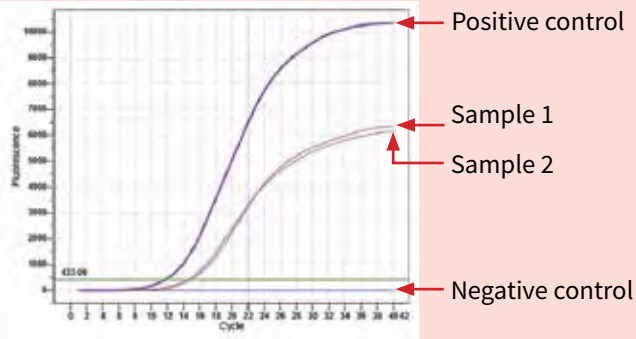
| Lanes | Yield (ng/µl) | Purity ($A_{260}$/ $A_{280}$) | Purity ($A_{260}$/ $A_{230}$) |
|---|---|---|---|
| 1 | 24.46 | 1.60 | 0.67 |
| 2 | 27.86 | 1.68 | 0.76 |
| 3 | 24.57 | 1.66 | 0.55 |

* Positive control - DNA extracted manually * Sample - DNA extracted by Insta NX®

# Milk

## Milk Powder DNA (Real-Time PCR)

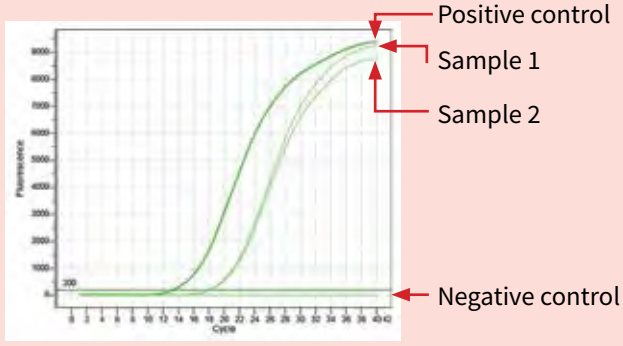
**LOD: Spiked with $10^{-2}$ to $10^{0}$ *Salmonella* Cells/ml**




| Sample | $C_t$ value |
|---|---|
| Positive control | 11.85 |
| Milk powder sample 1 | 14.62 |
| Milk powder sample 2 | 15.02 |
| Negative control | N/A |

## Whole Milk DNA (Real-Time PCR)

**LOD: Spiked with $10^{-2}$ to $10^{0}$ *Salmonella* Cells/ml**

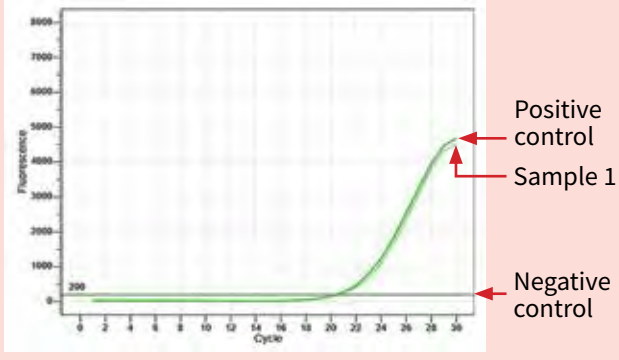



| Sample | $C_t$ value |
|---|---|
| Positive control | 13.28 |
| Whole milk sample 1 | 18.22 |
| Whole milk sample 2 | 18.1 |
| Negative control | N/A |

# Juice

## Aloe Vera juice DNA (Real-Time PCR)

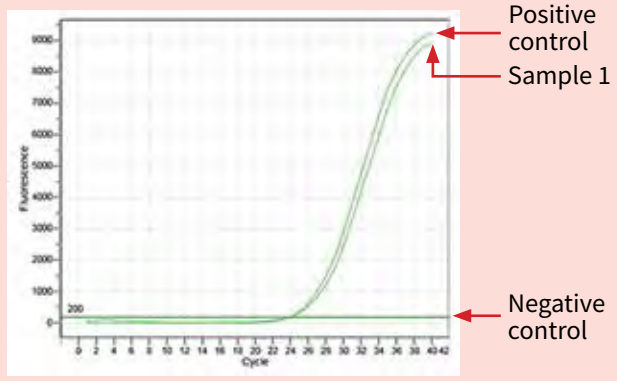
**LOD: Spiked with $10^{-1}$ to $10^{1}$ *Salmonella* Cells/ml**




| Sample | $C_t$ value |
|---|---|
| Positive control | 20.78 |
| Aloe vera juice sample 1 | 20.57 |
| Negative control | N/A |

## Sweet lime juice DNA (Real-Time PCR)

**LOD: Spiked with $10^{3}$ to $10^{5}$ *Salmonella* Cells/ml**



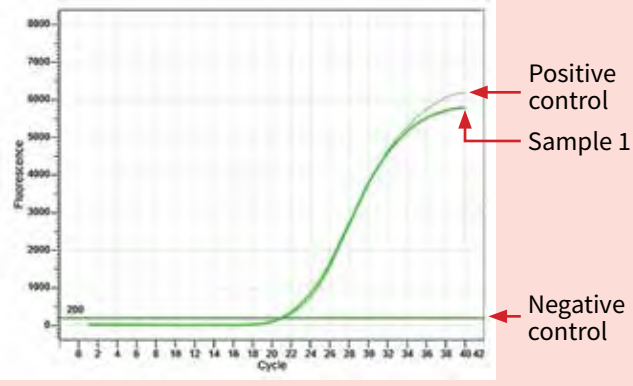

| Sample | $C_t$ value |
|---|---|
| Positive control | 24.05 |
| Sweet lime juice sample 1 | 24.05 |
| Negative control | N/A |

* Positive control - DNA extracted manually * Sample - DNA extracted by Insta NX® * LOD - Limit of Detection

# Masala (Spice Mix)

## Chat Masala DNA (Real-Time PCR)
(Mix of Rock Salt, Pepper, Cumin powder etc.)

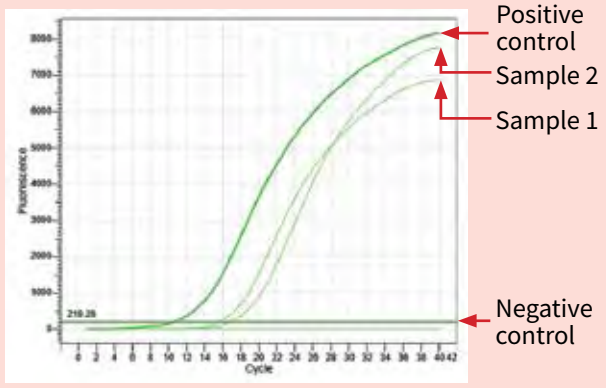
**LOD: Spiked with $10^6$ to $10^8$ *Salmonella* Cells/ml**




| Sample | $C_t$ value |
|---|---|
| Positive Control | 21.70 |
| Chat Masala sample 1 | 21.33 |
| Negative Control | N/A |

## Garam Masala DNA (Real-Time PCR)
(Mix of Cloves, Cardamom, Cinnamon, Pepper etc.)

**LOD: Spiked with $10^6$ to $10^8$ *Salmonella* Cells/ml**

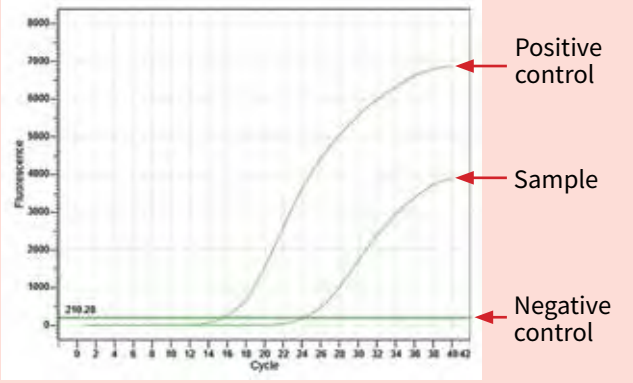



| Sample | $C_t$ value |
|---|---|
| Positive Control | 10.76 |
| Garam masala sample 1 | 15.74 |
| Garam masala sample 2 | 16.97 |
| Negative Control | N/A |

# Masala (Spice Mix)

## Vegetable Masala DNA (Real-Time PCR)
(Mix of Chilli, Turmeric, Cloves Cardamom etc.)

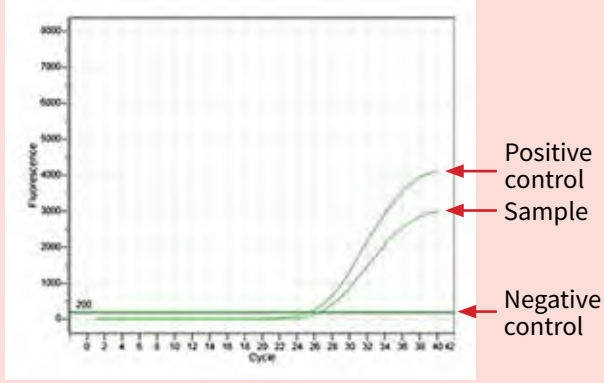
**LOD: Spiked with $10^4$ to $10^6$ *Salmonella* Cells/ml**




| Sample | $C_t$ value |
|---|---|
| Positive Control | 15.74 |
| Vegetable masala sample | 24.33 |
| Negative Control | N/A |

## Noodle Masala DNA (Real-Time PCR)

**LOD: Spiked with $10^{-1}$ to $10^1$ *Salmonella* Cells/ml**

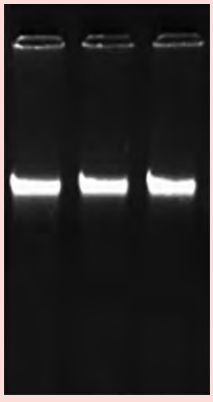



| Sample | $C_t$ value |
|---|---|
| Positive Control | 25.44 |
| Noodle masala sample | 26.63 |
| Negative Control | N/A |

* Positive control - DNA extracted manually * Sample - DNA extracted by Insta NX® * LOD - Limit of Detection

## Chicken

### Chicken Tissue DNA

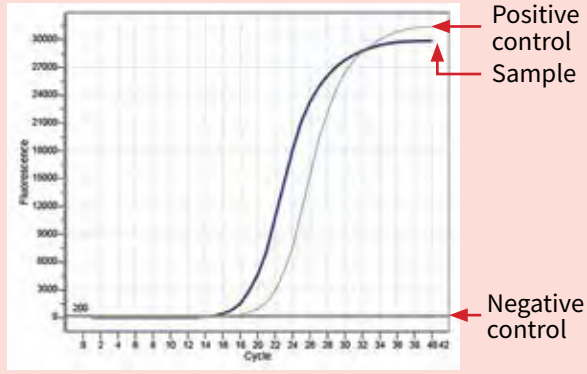



**Yield and Purity**

| Lanes | Yield (ng/µl) | Purity ($A_{260}$/$A_{280}$) | Purity ($A_{260}$/$A_{230}$) |
|---|---|---|---|
| 1 | 26.2 | 1.66 | 0.61 |
| 2 | 26.3 | 1.79 | 0.56 |
| 3 | 27.1 | 1.81 | 0.57 |

## Prawn

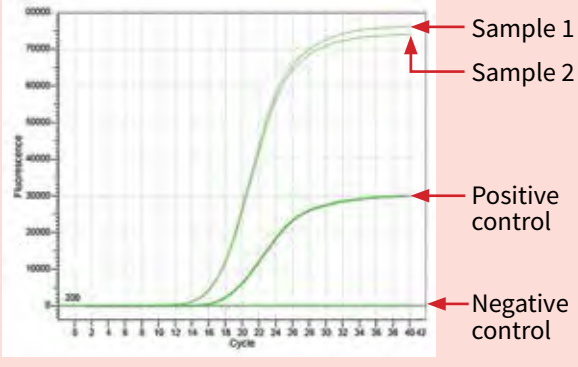
### Prawn Tissue DNA (Real-Time PCR)




| Sample | $C_t$ value |
|---|---|
| Positive control | 13.39 |
| Prawn sample | 15.62 |
| Negative control | N/A |

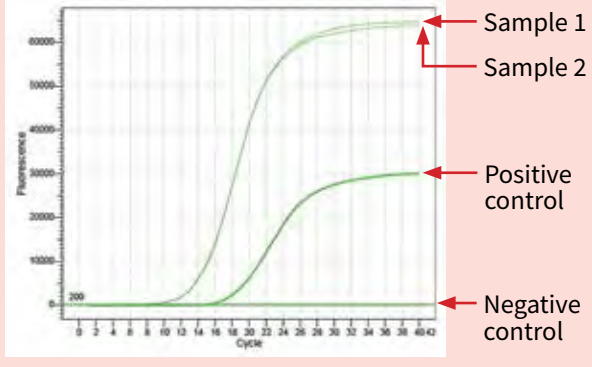
## Pork

### Pork Fat DNA (Real-Time PCR)




| Sample | $C_t$ value |
|---|---|
| Pork fat sample 1 | 10.39 |
| Pork fat sample 2 | 11.63 |
| Positive control | 15.12 |
| Negative control | N/A |

### Pork Tissue DNA (Real-Time PCR)




| Sample | $C_t$ value |
|---|---|
| Pork tissue sample 1 | 7.74 |
| Pork tissue sample 2 | 7.05 |
| Positive control | 15.12 |
| Negative control | N/A |

* Positive control - DNA extracted manually * Sample - DNA extracted by Insta NX®

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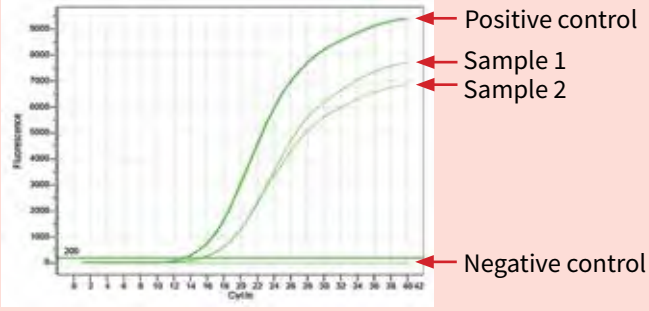
Food and Beverages

## Chocolate

### Chocolate DNA (Real-Time PCR)

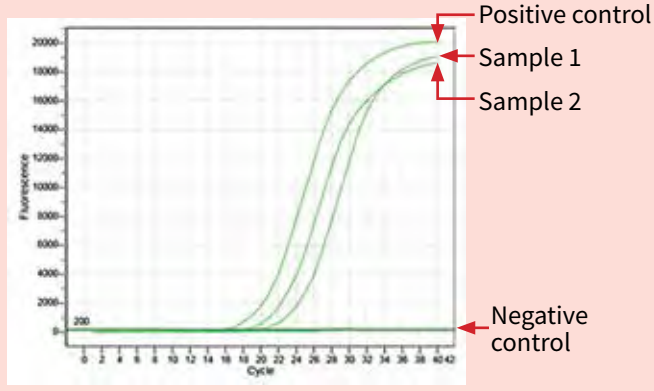
**LOD: Spiked with $10^{-2}$ to $10^{0}$ *Salmonella* Cells/ml**




| Sample | $C_t$ value |
|---|---|
| Positive control | 13.39 |
| Chocolate sample 1 | 15.62 |
| Chocolate sample 2 | 15.26 |
| Negative control | N/A |

## Water

### Water DNA (Real-Time PCR)

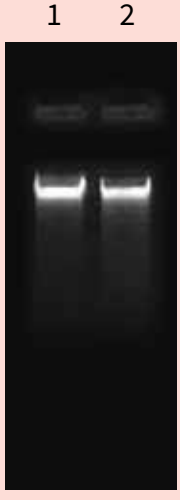



| Sample | $C_t$ value |
|---|---|
| Positive Control | 16.16 |
| Water sample 1 | 18.44 |
| Water sample 2 | 25.35 |
| Negative Control | N/A |

Environmental Samples

## Fungus

### *Verticillum lecani* DNA

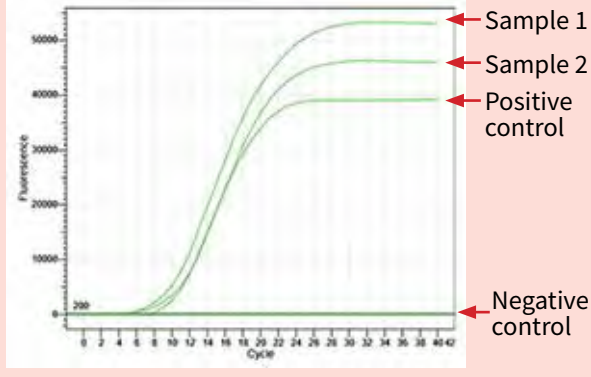



**Yield and Purity**

| Lanes | Yield (ng/µl) | Purity ($A_{260}$/$A_{280}$) | Purity ($A_{260}$/$A_{230}$) |
|---|---|---|---|
| 1 | 37.4 | 1.74 | 1.38 |
| 2 | 31.52 | 1.65 | 1.65 |

## Bacteria

### Bacterial DNA (Real-Time PCR)

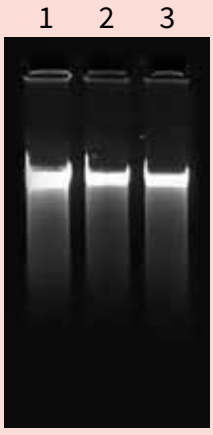



| Sample | $C_t$ value |
|---|---|
| Positive Control | 7.92 |
| Bacterial sample 1 | 3.69 |
| Bacterial sample 2 | 4.54 |
| Negative Control | N/A |

* Positive control - DNA extracted manually * Sample - DNA extracted by Insta NX® * LOD - Limit of Detection

## Sugarcane

### Sugarcane Leaf DNA




**Yield and Purity**

| Lanes | Yield (ng/µl) | Purity ($A_{260}$/$A_{280}$) | Purity ($A_{260}$/$A_{230}$) |
|---|---|---|---|
| 1 | 124.46 | 1.71 | 1.47 |
| 2 | 87.52 | 1.67 | 1.14 |
| 3 | 69.69 | 1.68 | 1.24 |

## Watermelon

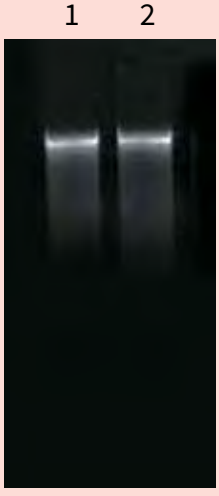
### Watermelon Seeds DNA

**Yield and Purity**

| Lanes | Yield (ng/µl) | Purity ($A_{260}$/$A_{280}$) | Purity ($A_{260}$/$A_{230}$) |
|---|---|---|---|
| 1 | 45.27 | 1.60 | 1.01 |
| 2 | 48.09 | 1.61 | 0.97 |

## Rice

### Rice Root DNA

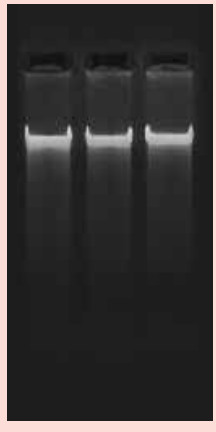



**Yield and Purity**

| Lanes | Yield (ng/µl) | Purity ($A_{260}$/$A_{280}$) | Purity ($A_{260}$/$A_{230}$) |
|---|---|---|---|
| 1 | 24.76 | 1.76 | 1.41 |
| 2 | 21.31 | 1.81 | 1.44 |

## Soil

### Soil DNA




**Yield and Purity**

| Lanes | Yield (ng/µl) | Purity ($A_{260}$/$A_{280}$) | Purity ($A_{260}$/$A_{230}$) |
|---|---|---|---|
| 1 | 33.07 | 1.69 | 1.74 |
| 2 | 36.32 | 1.71 | 1.59 |
| 3 | 40.39 | 1.71 | 2.67 |

## Product Intended Use:

The Insta NX® Instrument is intended for use in combination with HiMedia kits to perform automated purification of nucleic acids. The nucleic acid purified using the Insta NX® Instrument is suitable for direct downstream analysis by standard amplification methods.

## List of Purification kits for Insta NX®

| Code | Product Name |
|---|---|
| MBIN001 | Insta NX® Blood Genomic DNA Purification Kit |
| MBIN002 | Insta NX® Food Pathogen DNA Purification Kit (Salmonella) [Provided with Culture Media] |
| MBIN003 | Insta NX® Tissue DNA Purification Kit |
| MBIN004 | Insta NX® Urine DNA Purification Kit |
| MBIN005 | Insta NX® Plant DNA Purification Kit |
| MBIN006 | Insta NX® Bacterial Genomic DNA Purification Kit |
| MBIN007 | Insta NX® Stool DNA Purification Kit |
| MBIN008 | Insta NX® Fungal DNA Purification Kit |
| MBIN009 | Insta NX® Soil DNA Purification Kit |
| MBIN010 | Insta NX® Water DNA Purification Kit |
| MBIN011 | Insta NX® Cell Genomic DNA Purification Kit |
| MBIN012 | Insta NX® Bone DNA Purification Kit |
| MBIN013 | Insta NX® Viral RNA Purification Kit |
| MBIN014 | Insta NX® Food DNA Purification Kit |
| MBIN015 | Insta NX® Viral DNA Purification Kit |
| MBIN016 | Insta NX® Superplant DNA Purification Kit |
| MBIN017 | Insta NX® Frozen Blood DNA Purification Kit |
| MBIN018 | Insta NX® Food Pathogen DNA Purification Kit (Without Culture Media) |
| MBIN019 | Insta NX® Mycobacterium Tuberculosis DNA Purification Kit |
| MBIN020 | Insta NX® Forensic Multi sample DNA Purification Kit |
| MBIN021 | Insta NX® Blood RNA Purification Kit |

## Specifications :

| | |
|---|---|
| **Product Name** | Insta NX® |
| **Product Code** | LA1056 |
| **Sample Capacity** | 1-12 Samples per run |
| **Sample Volume** | 200-400µl |
| **Elution Volume** | 50, 100, 150, 200µl |
| **Processing Time** | 50-120 minutes (depends on sample type and method) |
| **Heating Block** | Room Temp. to 120°Cx1; Room Temp. to 70°Cx1 |
| **Electric Control** | Internal microprocessor |
| **Customizable Protocols** | Yes |
| **Light Source** | LED white light |
| **Touch Screen** | WVGA (16:9) 7" TFT LCD |
| **Power Supply** | 100-240V, 50/60 Hz |
| **Operating Condition** | 18-30°C |
| **Weight** | 60 Kg |
| **Dimension (W x D x H)** | 44 x 72 x 64 cm |
| **UV Light** | InBuilt |
| **Certification** | CE & IVD approved |

HiGenoMB Unzipping Genes

## HiMedia's PCR Complete Solution

Automated Pre-Processing of Samples / starting material

Amplification of Nucleic Acid using Conventional PCR

Electrophoresis of PCR Amplicons

Observation of DNA/RNA/PCR products under UV light

## HiMedia's Real Time PCR Complete Solution

Automated Pre-Processing of Samples / starting material

Amplification of Nucleic Acid using Real Time PCR

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For Life is Precious

Literature Code : TL-563_02/Insta NX Literature/0719