

MULTINAT[®]

The MultNAT[®] System ensures fast, accurate, and fully automated multiplex testing for comprehensive molecular syndromic analysis.



Empowering Health with Innovation



MULTI-NAT[®]

The MultiNAT[®] System, based on fluorescence polymerase chain reaction (PCR) technology, is a fully integrated and automatic system designed to meet the increasing demand for multiplex, high-throughput and quantitative testing.



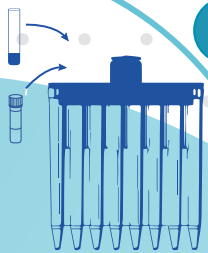
2-MODULES
UP0202



4-MODULES
UP0204

- Reduces contamination risks
- Simplified, intuitive interface
- QR code access for streamlined operations
- Minimal manual data entry
- High sensitivity
- LIS integration for result reporting

- Supports up to 24 targets per sample
- Requires less than one minute of hands-on time
- High-throughput and random access
- Scalable according to lab or clinic needs



1
Load Sample



2
Insert Cartridge



3
Report Result

Technical Parameters
























Dimension cm (W x D x H)	UPN0102: 37 x 35 x 34 - 17 Kg
- Weight	UPN0104: 37 x 61 x 34 - 31.5 Kg
Controllable temperature range	40~95°C
Melting heating rate	0.1~1°C/s
Heating Rate	Upper zone ≥0.8°C/s Middle zone ≥0.8°C/s Lower zone ≥3.5°C/s
Cooling rate	Lower zone ≥2.5°C/s
Module temperature fluctuation	≤0.5°C
Precision of temperature control	≤0.5°C
Temperature uniformity	≤1°C

Excitation Wavelength	CH1: 470nm, CH2: 520nm CH3: 560nm, CH4: 625nm
Detection Wavelength	CH1: 520nm, CH2: 570nm CH3: 625nm, CH4: 680nm
Repeatability of fluorescent intensity test	CV ≤3%
Accuracy of fluorescent intensity test	CV ≤5%
Fluorescence Detection Time	≤15s
Signal Interface	USB
Print Interface	External USB Thermal printer
Screen	13.3 inches
Information Management System	LIS

MULTINAT[®] Respiratory panel

Ref. No US-U202039

Pkg 5 tests/kit

-  Adenovirus
-  Coronavirus 229E
-  Coronavirus HKU1
-  Coronavirus NL63
-  Coronavirus OC43
-  MERS-CoV
-  SARS-CoV-2
-  Human metapneumovirus
-  Human rhinovirus/enterovirus
-  Influenza A virus
-  Influenza A virus A/H1
-  Influenza A virus A/H3
-  Influenza A virus A/H1-2009
-  Influenza B virus
-  Parainfluenza virus 1
-  Parainfluenza virus 2
-  Parainfluenza virus 3
-  Parainfluenza virus 4
-  Respiratory syncytial virus
-  Bordetella pertussis
-  Bordetella parapertussis
-  Mycoplasma pneumoniae
-  Legionella pneumophila

23 plex

TAT 59 min













Sample Types
Nasopharyngeal swab

MULTINAT[®] Respiratory panel 2

Ref. No US-U202040

Pkg 20 tests/kit

-  SARS-CoV-2
-  Respiratory Syncytial Virus (RSV)
-  Influenza A virus (Flu A)
-  Influenza B virus (Flu B)
-  Mycoplasma pneumoniae (MP)
-  Parainfluenza Viruses (PIVs)
-  Bordetella pertussis (BP)
-  Human metapneumovirus (HMPV)
-  Human rhinovirus (HRV)
-  Adenovirus (ADV)

10 plex

TAT 34 min







Sample Types
Oropharyngeal swab

MULTINAT[®] SARS-CoV-2/Flu and RSV PCR Assay

Ref. No US-U202043

Pkg 20 tests/kit

-  SARS-CoV-2
-  Influenza A virus (Flu A)
-  Influenza B virus (Flu B)
-  Respiratory Syncytial Virus (RSV A/B)

4 plex

TAT 34 min 57 sec



Sample Types
Nasopharyngeal swab

MULTINAT[®] MTC Assay

Ref. No US-U201010

Pkg 20 tests/kit

-  Mycobacterium tuberculosis complex

1 plex

TAT 78 min



Sample Types
Sputum, tongue swab

MULTINAT[®] MTC/RIF Assay

Ref. No US-U201006

Pkg 20 tests/kit

-  MTC and rifampin rpoB gene

2 plex

TAT 109 min








Sample Types
Sputum, tongue swab

MULTINAT[®] EV Assay

Ref. No US-U218005

Pkg 20 tests/kit

-  Enterovirus Universal
-  Enterovirus 71
-  Coxsackievirus A16
-  Coxsackievirus A10
-  Coxsackievirus A6

5 plex

TAT 90 min




















Sample Types
Oropharyngeal swab

MULTINAT[®]

Gastrointestinal Panel (24-plex)

Ref. No US-U218006

Pkg 10 tests/kit

-  Campylobacter (C.jejuni/C.coli/C.upsaliensis)
-  Clostridium difficile (toxinA/B)
-  Enterohaggregative E. coli (EAEC)
-  Shigella/Enteroinvasive E.coli (EIEC)
-  Enteropathogenic E. coli (EPEC)
-  Enterotoxigenic E. coli (ETEC) It/st
-  Plesiomonas shigelloides
-  Salmonella
-  STEC stx1/stx2 (including stx2f)
-  E.coli O157:H7
-  V.vulnificus/Vibrio parahaemolyticus
-  Yersinia pseudotuberculosis
-  V. cholerae
-  Yersinia enterocolitica
-  Adenoviruses F 40/41
-  Astrovirus
-  Norovirus GI
-  Norovirus GII
-  Rotavirus A
-  Sapovirus (GI/GII/GIV/GV)
-  Cryptosporidium
-  Cyclospora cayentanensis
-  Entamoeba histolytica
-  Giardia lamblia

24 plex

TAT 66 min 22 sec





Sample Types
Stool

MULTINAT[®]

C. difficile Assay

Ref. No US-U204012

Pkg 20 tests/kit

-  C.Difficile
-  O27/NAPI/BI

2 plex

TAT 58 min



Sample Types
Stool

MULTINAT[®]

Norovirus Assay

Ref. No US-U218004

Pkg 20 tests/kit

-  Norovirus GI
-  Norovirus GII

2 plex

TAT 58 min






Sample Types
Stool

MULTINAT[®]

Helicobacter pylori 23S rRNA Gene Mutation Detection Kit

Ref. No US-U218012

Pkg 10 tests/kit

-  Helicobacter pylori
-  Clarithromycin resistance (A2142G, A2142C and A2143G mutations of 23S rRNA gene)
-  Quinolone resistance (A260T, C261A, T261G, G271A, G271T, A272G mutations of gyrA gene)

3 plex

TAT 85 min 20 sec





Sample Types
Gastric mucosa / human gastric juice

MULTINAT[®]

MRSA/SA Assay

Ref. No US-U204008

Pkg 20 tests/kit

-  Methicillin-resistant Staphylococcus aureus (MRSA)
-  Staphylococcus aureus (SA)

2 plex

TAT 62 min




Sample Types
Nasal swabs

MULTINAT[®]

Carba-R Assay

Ref. No US-U204011

Pkg 20 tests/kit

-  Carbapenem resistance genes [KPC, NDM, VIM, OXA, IMP]

5 plex

TAT 85 min

















Sample Types
Rectal swab, stool, bacterial colony, blood culture and sputum

MULTINAT[®] STI Panel

Ref. No US-U203018

Pkg 10 tests/kit

-  Chlamydia trachomatis
-  Neisseria gonorrhoeae
-  Trichomonas vaginalis
-  Treponema pallidum
-  Herpes simplex virus type 1
-  Herpes simplex virus type 2
-  Ureaplasma urealyticum
-  Ureaplasma parvum
-  Mycoplasma hominis
-  Mycoplasma genitalium
-  Gardnerella vaginalis
-  Haemophilus ducreyi
-  Candida albicans
-  Lymphogranuloma venereum

14 plex

TAT

66 min



Sample Types
Urine, Female genital swab

MULTINAT[®] GBS Assay

Ref. No US-U203027

Pkg 20 tests/kit

-  Group B Streptococcus (GBS)

1 plex

TAT

46 min

RUO

Sample Types
Vaginal/rectal swab

MULTINAT[®] MultNAT HIV-1 VL

Ref. No US-U205009

Pkg 20 tests/kit

-  HIV-1 M, N, O (target LTR, pol)

Quant

TAT

137 min





RUO

Sample Types
Serum, Plasma

MULTINAT[®] Dengue Genotyping Assay

Ref. No US-U205011

Pkg 20 tests/kit

-  Dengue virus serotype 1 (DENV-1)
-  Dengue virus serotype 2 (DENV-2)
-  Dengue virus serotype 3 (DENV-3)
-  Dengue virus serotype 4 (DENV-4)

4 plex

TAT

122 min 18 sec






Sample Types
Serum or Plasma

MULTINAT[®] Dengue Zika and Chikungunya Virus Assay

Ref. No US-U205012

Pkg 20 tests/kit

-  Dengue virus (DENV)
-  Zika virus (ZIKV)
-  Chikungunya virus (CHIKV)

3 plex

TAT

122 min 18 sec
















Sample Types
Serum or Plasma

MULTINAT[®] Tropical Fever Panel

Ref. No US-U205015

Pkg 20 tests/kit

-  Dengue virus serotype 1 (DENV-1)
-  Dengue virus serotype 2 (DENV-2)
-  Dengue virus serotype 3 (DENV-3)
-  Dengue virus serotype 4 (DENV-4)
-  Chikungunya virus (CHIKV)
-  Zika virus (ZIKV)
-  West Nile virus (WNV)
-  Leptospira spp. (Lep)
-  Leishmania spp. (Lei)
-  Plasmodium spp. (Plas)
-  Plasmodium falciparum (Pf)
-  Plasmodium vivax (Pv)
-  Plasmodium ovale (Po)

13 plex

TAT

82 min



Sample Types
Whole blood

MULTINAT[®] ASFV Assay

Ref. No US-U208024 Pkg 20 tests/kit

 African swine fever virus (ASFV)

1 plex

TAT 105 min


VET

Sample Types

Pig serum, blood swabs, oropharyngeal swabs, and environmental swabs.

MULTINAT[®] PRRSV Assay

Ref. No US-U208037 Pkg 20 tests/kit

 Porcine reproductive and respiratory syndrome virus (PRRSV)

1 plex

TAT 105 min
















VET

Sample Types

Pig serum, throat swab, nasal swab, rectal swab

MULTINAT[®] Mastitis Panel

Ref. No US-210026 Pkg 10 tests/kit

-  Escherichia coli (Ec)
-  Streptococcus macedonicus (Sm)
-  Corynebacterium bovis (Cb)
-  Klebsiella spp. (Klsp)
-  Enterococcus spp. (Ensp)
-  Group B Streptococcus (GBS)
-  Streptococcus uberis (Sub)
-  Streptococcus dysgalactiae (Sdy)
-  Pseudomonas spp. (Psp)
-  Mycoplasma spp. (Mysp)
-  Mycoplasma bovis (Myb)
-  Yeast (Yea)
-  Staphylococcus aureus (Sau)
-  Coagulase-negative Staphylococci (CNS)
-  Lactococcus spp. (Lac)
-  Trueperella pyogenes (Tpy)
-  Proteus indole positive (PI)

17 plex

TAT 67 min

VET

Sample Types
Milk

MULTINAT[®] FMDV Assay

Ref. No US-U208035 Pkg 20 tests/kit

 Foot-and-mouth disease virus (FMDV)

1 plex

TAT 105 min

VET

Sample Types

Vesicle skin, vesicle fluid, oesophagus-pharyngeal fluid

MULTINAT[®] PEDV Assay

Ref. No US-U208038 Pkg 20 tests/kit

 Porcine epidemic diarrhea virus (PEDV)

1 plex

TAT 105 min

VET

Sample Types

Swine feces, anal swabs, and intestinal tissue



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