MultNAT



MultNAT® Assay Portfolio

Ustar Biotechnologies (Hangzhou) Ltd.

Overview of
MultNAT® System

As a game changer in syndromic testing, Ustar introduces its revolutionary MultNAT® System for Point-of-Care (POC) testing:



Scalable to Your Needs

The MultNAT® System offers high throughput and random access, capable of running up to 32 tests concurrently.

Flexible cartridge configurations support 1-tube, 2-tube, or 4-tube formats, enabling users to balance multiplexing capacity and test throughput for different testing needs.

- Lab-grade PCR results near patient
- Simultaneous testing of multiple targets (>30 plex)
- 10-fluorescence channels improve test capacity
- User-Friendly operation with no pipetting required

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Designed Specifically for POC Testing

Rapid Answers:
Fast syndromic results.

Advanced User Management:
Easily set up new operators and manage permissions.

Intuitive System Interface:
Designed for use by healthcare personnel in any setting.

Minimal Maintenance:
Requires only periodic cleaning, no general maintenance.

LIS Integration:
Capabilities for interfacing with Laboratory Information Systems (LIS).



Easy as 1/2/3, No Pipette Required

- With less than one minute of hands-on time

1. Swab sample
2. Drop to cartridge
3. Automated diagnostic
4. Result read



Specifications

CATALOG NUMBER	DESCRIPTION	INSTRUMENT DIMENSIONS	WEIGHT
UP0201	1-module system	210 mm (L) × 380 mm (W) × 270 mm (H)	6 kg
UP0202	2-module system	370 mm (L) x 350 mm (W) x 340 mm (H)	17 kg
UP0204	4-module system	370 mm (L) x 610 mm (W) x 340 mm (H)	31.5 kg

MultNAT®
POC PCR Assay Portfolio

CE

Syndromic Testing

- MultNAT Respiratory Panel (24-plex)
- MultNAT Gastrointestinal Panel (24-plex)
- MultNAT Pneumonia Panel (22-plex)*
- MultNAT UTI Panel*
- MultNAT Meningitis Encephalitis Panel*
- MultNAT Blood Culture Identification Panel*

Repiratory Infection

- MultNAT Respiratory Panel 2 (10-plex)
- MultNAT SARS-CoV-2/Flu and RSV PCR Assay
- MultNAT EV Assay (5-plex)
- MultNAT Pneumonia Panel 2 (19-plex)*
- MultNAT Strep A Assay*
- MultNAT Fungal Panel*

Oncology, Human Genetics & Autoimmune Disease

- JAK2-V617F*
- BRAF V600E*
- UC miRNA*
- CYP2C19*
- CYP2C9, VKORC1*
- SLCO1B1, APOE*
- CYP2C19, CYP2D6*
- ALDH2*
- MTHFR, MTRR*
- Systemic Lupus Erythematosus*

Gastrointestinal Infection

- MultNAT Gastrointestinal Panel (14-plex)
- MultNAT C. difficile Assay
- MultNAT Norovirus Assay
- Helicobacter pylori 23S rRNA Gene Mutation Detection Kit

Hospital Acquired Infection

- MulNAT MRSA/SA Assay
- MultNAT Carba-R Assay (6-plex)
- MultNAT Carba-R Assay (14-plex)
- MultNAT vanA/vanB Assay*

Tropical Diseases

- MultNAT Tropical Fever Panel (14-plex)
- MultNAT Tropical Fever Panel (7-plex)
- MultNAT Tropical Fever Panel (4-plex)
- MultNAT Dengue Genotyping Assay
- MultNAT Dengue Zika and Chikungunya Virus Assay

Other Infection

- MultNAT Ebola Assay*
- MultNAT HTNV/SEOV/Andes Virus Assay

Blood Virology, Women's Health & Sexual Health

- MultNAT STI Panel (14-plex)
- MultNAT STI Panel (10-plex)
- MultNAT STI Panel (5-plex)
- MultNAT HPV Panel (14-plex)
- MultNAT HPV Panel (20-plex)
- MultNAT HPV Panel (28-plex)
- MultNAT GBS Assay
- MultNAT HIV-1 VL Assay
- MultNAT HBV VL Assay*
- MultNAT HCV VL Assay*
- MultNAT Monkeypox Assay*

Tuberculosis

- MultNAT MTC Assay
- MultNAT MTC/RIF Assay
- MultNAT NTM Panel
- MultNAT MTC/XDR Assay*
- MultNAT MTC/MDR Assay*

Veterinary Diseases

- MultNAT ASFV Assay
- MultNAT PRRSV Assay
- MultNAT PEDV Assay
- MultNAT Mastitis Panel
- MultNAT FMDV Assay

* Under Development ★ Highly Recommended ■ Exclusive

MultNAT Tests

Syndromic Testing

Product Name	Catalog No.	Pathogens	Sample Types	Certification
★ MultNAT Respiratory Panel (24-plex)	U202039-5	- Adenovirus - Coronavirus 229E - Coronavirus HKU1 - Coronavirus NL63 - Coronavirus OC43 - MERS-CoV (RUO) - 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 parapertussis - Bordetella pertussis - Mycoplasma pneumoniae - Legionella pneumophila - Chlamydia pneumoniae	Nasopharyngeal swab	CE 0123
★ MultNAT Gastrointestinal Panel (24-plex)	U218006-10	- Enteroaggregative E. coli (EAEC) - Campylobacter spp. (jejuni/coli/upsaliensis) - Enteropathogenic E. coli (EPEC) - Clostridioides difficile (Toxin A/B) - Salmonella spp. - Enterotoxigenic E. coli (ETEC, lt/st) - Plesiomonas shigelloides - Vibrio spp. (parahaemolyticus/vulnificus) - Yersinia enterocolitica - Shigella/Enteroinvasive E. coli (EIEC) - Shiga toxin-producing E. coli (STEC, stx1/stx2)(differentiate stx1/stx2), including stx2f) - E. coli O157 serotype - Vibrio cholerae (separate typing) - Yersinia pseudotuberculosis - Norovirus GI/GII - Rotavirus A - Adenovirus F40/41 - Sapovirus (Genogroups I/II/IV/V) - Astrovirus - Giardia lamblia - Cryptosporidium spp. - Entamoeba histolytica - Cyclospora cayetanensis	Stool	CE 0123

Repiratory Infection

★ MultNAT Respiratory Panel 2 (10-plex)	U202040-20	- 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)	Nasopharyngeal swab	
★ MultNAT SARS-CoV-2/Flu and RSV PCR Assay	U202043-20	- SARS-CoV-2 - Influenza A virus (Flu A) - Influenza B virus (Flu B) - Respiratory Syncytial Virus (RSV)	Nasopharyngeal swab	CE 0123
■ MultNAT EV Assay	U218005-20	- EV (Universal) - EV 71 - CA 16 - CA 10 - CA 6	Oropharyngeal swab	CE 0123

Gastrointestinal Infection

★ MultNAT Gastrointestinal Panel (14-plex)	U218022-20-C2	- Campylobacter spp. (jejuni/coli/upsaliensis) - Clostridioides difficile (Toxin A/B) - Salmonella spp. - Vibrio spp. (parahaemolyticus/vulnificus) - Yersinia enterocolitica - Shigella/Enteroinvasive E. coli (EIEC) - Shiga toxin-producing E. coli (STEC, stx1/stx2)(differentiate stx1/stx2), including stx2f) - E. coli O157 serotype - Vibrio cholerae (separate typing) - Norovirus GI/GII - Giardia lamblia - Cryptosporidium spp. - Cyclospora cayetanensis	Stool	
★ MultNAT C. difficile Assay	U204012-20	- C. Difficile (toxin B gene) - 027/NAP1/BI	Stool	CE 0123
MultNAT Norovirus Assay	U218004-20	- Norovirus GI - Norovirus GII	Stool	
★ Helicobacter pylori 23S rRNA Gene Mutation Detection Kit	U218012-10	- Helicobacter pylori(UreA) - Clarithromycin-resistance mutations(A2142G, A2142C, A2143G) - Quinolone-resistance mutations(A260T, C261A, T261G, G271A, G271T, A272G)	Gastric mucosa	

Hospital Acquired Infection

★ MulNAT MRSA/SA Assay	U204008-20	- Methicillin-resistant Staphylococcus aureus - Staphylococcus aureus	Nasal swabs	CE 0123
★ MultNAT Carba-R Assay	U204011-20	- KPC - NDM - VIM - OXA-23 - OXA-48 - IMP	Rectal swab Colony	
★ MultNAT Carba-R Assay (14-plex)	U204016-20	- KPC - NDM - VIM - OXA-23 - OXA-24/40 - OXA-48 - OXA-58 - IMP - GES - CTX-M - SPM - IMI/NMC - mcr1 - mcr2	Rectal swab Colony	CE 0123

Blood Virology, Women's Health & Sexual Health

Product Name	Catalog No.	Pathogens	Sample Types	Certification
★ MultNAT STI Panel (14-plex)	U203028-20	- C. trachomatis - N. gonorrhoeae - T. vaginalis - T. pallidum - Herpes simplex virus type 1 - Herpes simplex virus type 2 - U. urealyticum - U. parvum - M. hominis - M. genitalium - G. vaginalis - H. ducreyi - C. albicans - CT LGV serovars	Urine Female genital swab	CE 0123
★ MultNAT Sexually Transmitted Infections Panel (10-plex)	U203018-20-C2	- C. trachomatis - N. gonorrhoeae - T. vaginalis - T. pallidum - Herpes simplex virus type 1 - Herpes simplex virus type 2 - U. urealyticum - U. parvum - M. hominis - M. genitalium	Urine Female genital swab	
MultNAT Sexually Transmitted Infections Panel (5-plex)	U203018-20-C1	- C. trachomatis - N. gonorrhoeae - T. vaginalis - U. urealyticum - M. genitalium	Urine Female genital swab	
★ MultNAT HPV Panel (14-plex)	U203021-20-C1	- HPV16 - HPV31 - HPV35 - HPV45 - HPV52 - HPV58 - HPV66 - HPV18 - HPV33 - HPV39 - HPV51 - HPV56 - HPV59 - HPV68	Cervical specimens	
★ MultNAT HPV Panel (20-plex)	U203021-10-C4	- HPV16 - HPV33 - HPV45 - HPV56 - HPV66 - HPV53 - HPV6 - HPV18 - HPV35 - HPV51 - HPV58 - HPV68 - HPV73 - HPV11 - HPV31 - HPV39 - HPV52 - HPV59 - HPV26 - HPV82	Cervical specimens	
★ MultNAT GBS Assay	U203027-20	- Group B Streptococcus	Vaginal/Rectal swab	CE 0123
MultNAT HIV-1 Viral Load Assay	U205034-20	- HIV-1 M - HIV-1 N - HIV-1 O	Plasma	

Tropical Diseases

★ MultNAT Tropical Fever Panel (14-plex)	U205015-10-C4	- Dengue virus serotype 1 - Dengue virus serotype 2 - Dengue virus serotype 3 - Dengue virus serotype 4 - Chikungunya virus - Zika virus - West Nile virus - Leptospira spp - Leishmania spp. - Plasmodium spp. - P. falciparum - P. vivax - P. ovale - Yellow fever virus(RUO)	Whole blood	CE 0123
★ MultNAT Tropical Fever Panel (7-plex)	U205015-20-C2	- Dengue virus serotype 1 - Dengue virus serotype 2 - Dengue virus serotype 3 - Dengue virus serotype 4 - Chikungunya virus - Zika virus - West Nile virus	Whole blood	CE 0123
★ MultNAT Tropical Fever Panel (4-plex)	U205015-20-C1	- Plasmodium spp. - P. falciparum - P. vivax - P. ovale	Whole blood	CE 0123
MultNAT Dengue Genotyping Assay	U205011-20	- Dengue virus serotype 1 - Dengue virus serotype 2 – Dengue virus serotype 3 - Dengue virus serotype 4	Serum Plasma	
■ MultNAT Dengue Zika and Chikungunya Virus Assay	U205012-20	- Dengue virus - Zika virus - Chikungunya virus	Serum Plasma	

Other Infections

MultNAT HTNV/SEOV/Andes Virus Assay	U205035-20	- Hantaan virus - Seoul virus - Andes virus	Whole blood/serum/ plasma/urine	

Tuberculosis

★ MultNAT MTC Assay	U201010-20	- Mycobacterium tuberculosis complex	Sputum Tongue swab	CE 0123
★ MultNAT MTC/RIF Assay	U201022-20	- Mycobacterium tuberculosis complex - Rifampin rpoB gene	Sputum	CE 0123
MultNAT NTM Panel	U201007-20	- Mycobacterium tuberculosis complex - Non-Tuberculosis mycobacteria	Sputum	

Veterinary Diseases

Product Name	Catalog No.	Pathogens	Sample Types
MultNAT ASFV Assay	U208024-20	- African swine fever virus	Oropharyngeal swab Serum
MultNAT PRRSV Assay	U208037-20	- Porcine reproductive and respiratory syndrome virus	Throat swab Plasma
MultNAT PEDV Assay	U208038-20	- Porcine epidemic diarrhea virus	Swine feces Intestinal tissue Anal swab
MultNAT FMDV Assay	U208035-20	- Foot-and-mouth disease virus	Vesicle skin Vesicle fluid Oesophagus-pharyngeal fluid
MultNAT Mastitis Panel	U210026-10	- Ec - Klsp - Sub - Mysp - Sau - Tpy - Sm - Ensp - Sdy - Myb - CNS - Pl - Cb - GBS - Psp - Yea - Lac	Milk

Facebook

Linkedin

YouTube

Add: 6/F, Building 2, 611 Dongguan Road,
Binjiang District, Hangzhou, Zhejiang,
310053 PR China

Tel: +86-571-88939358
Email: sales@bioustar.com
Web: en.bioustar.com

Exclusive Distributor (Benelux)
ACCURAMED BV
Add: Stadsbeemd 1212, 3545 Halen - Belgium

Tel: +32 13 53 17 31
Email: info@accuramed.be
Web: www.accuramed.be