

## Infectious Diseases & Toxins

Reagents for Assay Development

ISO Certified 13485:2016

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# Infectious Diseases

Infectious diseases are a leading cause of death worldwide, particularly in low income countries and especially in young children. The leading killers are HIV/AIDS, tuberculosis and malaria, however, lower respiratory infections (including pneumonia) and diarrheal diseases are also 2 of the top 10 causes of death globally according to the most recent survey by the World Health Organization (WHO).

Infectious diseases can be caused by several different types of pathogenic organisms including viruses, bacteria, protozoa and fungi. Transmission can occur through several different mechanisms such as contact with aerosolized droplets or infected skin, ingestion of contaminated food and water, sexual contact or through specialized hosts called vectors (e.g. mosquitoes).

The prevention and control of infectious diseases has been one of the principal public health activities of this century however they continue to pose a great health problem. New diseases are continuing to emerge and growing evidence also suggests that genetic changes in infectious agents are increasing their risk of causing serious diseases.

Early diagnosis can play a critical role in preventing and controlling the spread of disease by reducing its morbidity and mortality. Traditional methodologies for diagnosing infectious diseases such as microbial or viral culture and microscopy, are continually being replaced by rapid and/or more sensitive alternatives such as immunoassays and molecular diagnostics.

Rapid, point-of-care (POC) IVD tests that are easy to use have been largely sought after for their convenience, portability, and quick turn-around times allowing for faster decision making in regards to treatment and disease control. Diagnostic assays that directly identify an infectious agent have become increasingly essential to managing patient treatment and preventing disease outbreaks.

**THE TOP TEN LEADING CAUSES OF DEATH**

Rank	Worldwide	Low income countries	High income countries
1	Ischemic heart disease	Lower respiratory infection	Ischemic heart disease
2	Stroke	HIV/AIDS	Stroke
3	COPD	Diarrheal diseases	Lung Cancers
4	Lower respiratory infection	Stroke	Alzheimer's disease
5	Lung Cancers	Ischemic heart disease	COPD
6	HIV/AIDS	Malaria	Lower respiratory infection
7	Diarrheal diseases	Preterm birth complications	Colon Cancer
8	Diabetes	Tuberculosis	Diabetes
9	Road injury	Birth asphyxia and trauma	Hypertensive heart disease
10	Hypertensive heart disease	Malnutrition	Breast Cancer

Source: World Health Organization (2012)





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# Company Overview



Meridian Life Science, Inc. is a leading large scale manufacturer of:

- Antibodies
- Viral antigens
- Recombinant proteins
- PCR enzymes
- Nucleotides
- Critical assay reagents

Meridian has been providing innovative life science solutions and building trusted partnerships for over 40 years. Meridian's focus is to offer products and services that help to advance the development of diagnostic assays and vaccine development.

- Commercial scale manufacturing of antigens and antibodies with protein purification expertise
- Full line of immunoassay reagents, including antigens, antibodies and blockers
- Large scale production of reagents for molecular assays
- Technical support with assay development experience
- Dedicated R&D and manufacturing teams
- Robust and mature Quality System

ISO certified



## Extensive Capabilities and Services

### Immunodiagnostics

- Antigens & Antibodies
- Recombinant Proteins
- Blocking reagents

### Molecular Diagnostics

- Nucleotides
- enzymes
- qPCR/PCR reagents
- NGS reagents

### Contract Services

- Antigens & Antibodies
- Cell & Viral Banking
- PCR/qPCR Assay Development

## Global Presence

### MERIDIAN BIOSCIENCE, INC.

Parent Company | Founded in 1977 | Nasdaq: VIVO  
Headquartered in Cincinnati, OH | 750+ Employees | Presence in 70+ Countries.

### North America

#### MEMPHIS, TN

Viral Antigens  
Recombinant Proteins  
*In Vitro* Antibodies  
PCR Reagents

#### BILLERICA, MA

Magellan, Leadcare

#### BOCA RATON, FL

*In Vivo* Antibodies

#### QUEBEC, CANADA

GenePOC, Molecular Diagnostics

### EMEA

#### LONDON, UK

PCR Manufacturing & Sales  
PCR /qPCR Molecular Reagents

#### LUCKENWALDE, GERMANY

Large Scale Nucleotides  
PCR Enzymes  
Manufacturing

#### PARIS, FRANCE

EU Diagnostics Sales & Admin

#### WATERLOO, BELGIUM

EU Diagnostics Sales & Admin

#### MILAN, ITALY

EU Diagnostics Sales & Admin

#### MODI'IN, ISRAEL

BreathID® Breath Test Systems

### Asia Pacific

#### SYDNEY, AUSTRALIA

Warehouse & Sales

#### BEIJING, CHINA

Wholly Owned  
Subsidiary



# Company Overview

- 3400+ products
- High specificity & sensitivity
- Antibody pairing
- Large lot sizes

## Antigens & Antibodies

### Infectious disease

#### ToRCH

- Toxo
- Rubella
- CMV
- HSV-1, 2

#### TROPICAL

- Nipah
- Dengue 1, 2, 3, 4
- Chikungunya
- Mayaro Virus
- Malaria
- Chagas
- Lassa Virus
- Leishmaniasis
- Leptospirosis
- Newcastle disease
- Yellow Fever
- Zika
- Lyme disease
- Ebola

#### STDs

- HSV-1, 2
- HIV-1, 2
- HPV
- *Chlamydia*
- *Neisseria*
- Syphilis

#### CHILDHOOD

- Mumps
- Rubeola
- EBV
- Coxsackie
- Rotavirus
- RSV
- Parvo B19
- VZV

#### RESPIRATORY

- RSV
- Influenza A,B
- Parainfluenza
- *Mycoplasma pneumoniae*
- *Chlamydia pneumoniae*
- *Legionella pneumophila*
- *Bacillus anthracis*
- *Clostridium*
- *Listeria*
- *Streptococcus*
- *Staphylococcus*
- *Giardia lamblia*
- *SARS Coronavirus*
- Adenovirus

#### FOOD & WATER

- Hepatitis A
- *Campylobacter jejuni*
- *E. coli*
- *Legionella pneumophila*
- *Salmonella*
- *Shigella*
- *Bacillus anthracis*
- *Clostridium*
- *Listeria*
- *Streptococcus*
- *Staphylococcus*
- *Giardia lamblia*
- *Cryptosporidium*

#### GASTROINTESTINAL

- Norovirus
- Astrovirus
- Adenovirus
- Rotavirus
- *Clostridium difficile*
- *Cryptosporidium*
- *Campylobacter*
- *E. coli*
- *Salmonella*
- *Giardia lamblia*
- *H. pylori*

#### HEPATITIS

- HAV
- HBV
- HCV
- HEV



## Cancer

- PIVKA-II
- CA125
- CA15-3
- CA19-9
- CA72-4
- CA50
- CA242
- CEA
- Cyfra 21-1
- erbB-2/HER2
- AFP
- EGFR
- HE4
- NSE
- P53
- PMA
- PAP
- PSA
- PSMA
- S-100
- B2M
- Thyroglobulin

## Cardiac

- Troponin I, T
- Myoglobin
- BNP
- NT-proBNP
- CRP
- PCT
- CK-MB
- Apo A,B,E
- NSE
- FABP
- SAH
- Galectin-3
- Cystatin-C
- D-Dimer
- MPO
- Fibrinogen
- EGF
- sCD40L
- CD54
- Lp-PLA2
- PAPP-A
- Vitamin D
- Renin

## Immunoglobulins/Blockers

- TRU Block™ & IgM Diluent
- Animal IgGs – Bovine, Chicken, Goat, Mouse, Rabbit, Sheep
- Human IgA, IgG, IgM, IgE
- Kappa Light chain
- Lambda Light chain
- Goat Anti-Human IgG, IgM, IgA
- Goat Anti-Mouse IgG

## Hormones

- LH, FSH, hCG, hGH
- AMH
- Cortisol, Estradiol
- Insulin, C-peptide
- Prolactin
- Progesterone
- PTH

- PAPP-A
- TSH, T4, T3, ACTH
- Thyroglobulin

## Drugs of Abuse

- |                  |                   |                 |
|------------------|-------------------|-----------------|
| • Amphetamine    | • Fentanyl        | • Norketamine   |
| • Barbital       | • Ketamine        | • Opium         |
| • Benzodiazepine | • K2              | • Oxycodone     |
| • Buprenorphine  | • MDMA (Ecstasy)  | • PCP           |
| • Cocaine        | • Methadone       | • Phenobarbital |
| • Cotinine       | • Methamphetamine | • Propoxyphene  |
| • EDDP           | • Morphine        | • THC           |

## Autoimmune

- Jo-1
- PCNA
- pANCA
- cANCA
- Sm Ag
- dsDNA
- La (SS-B)
- Ro (SS-A)
- Histone
- GMB
- C1q
- Scl-70
- B2-Gly-1
- Cathepsin G
- Calprotectin

## Allergens

- Animal
- Dust Mite
- Mold
- Pollen



# Tropical & Vector-Borne diseases

Tropical and Vector-Borne diseases are among the most complex of all infectious diseases to prevent and control. Tropical diseases typically thrive in hot, humid conditions and include infections such as Malaria, Leishmaniosis, Dengue and Chagas. Many of these pathogens are also Vector-Borne diseases, transmitted between humans by a vector which is typically a blood-sucking arthropod (e.g. mosquitoes, ticks, fleas, lice and mites).

Serological point-of-care (POC) diagnostics are the most rapid and convenient methods available for tropical and vector-borne diseases. Tests either detect antigens from the infectious agent or virus specific IgG/IgM antibodies and use formats such as solid-phase dip-sticks (ELISA), particle agglutination, and lateral flow. Ideally screening assays should have minimal cross-reactivity with other infectious diseases and have a high sensitivity, especially during the early stages of the infection. There have been numerous approaches used to improve the specificity of these assays including (1) using smaller and more specific regions (sub-units) of the epitopes; (2) using multiple antigens to different epitopes within a single assay; and (3) incorporating antigens which represent common genetic variations of the disease.

## Antibody Pairs

	CAPTURE	DETECTION		CAPTURE	DETECTION
Dengue Virus NS1	C01914M	C01913M	Yellow Fever NS1	C01912M	R CO1906M
	C01914M	C01652M		C01912M	CO1907M
	C01652M	C01649M		C01912M	R CO1911M
	C01652M	C01650M		C01912M	R CO1910M
	C01652M	C01651M		C01912M	CO1909M
Ebola Virus NP	C01964M	C01965M		CO1906M	R CO1911M
Nipah Virus G Protein	C01975M	C01974M		CO1906M	CO1907M
Pan pLDH (Malaria)	C01834M	C01835M		CO1906M	R CO1909M
<i>P. falciparum</i> (Malaria) HRP-2	C01817M	C01816M		CO1906M	R CO1910M
	C01836M	C01837M		CO1909M	CO1911M
	C01584M	C01586M		CO1909M	CO1910M
	C01584M	C01585M		CO1909M	CO1907M
<i>P. falciparum</i> pLDH (Malaria)	C01833M	C01835M		CO1907M	R CO1911M
	C01867M	R C01868M		CO1907M	CO1910M
Zika Virus NS1	C01887M	C01888M		CO1910M	CO1911M
	C01887M	C01889M			
	C01888M	C01888M			
	C01888M	C01890M			
	C01889M	C01888M			
	ANTIGEN	ANTIBODY			
<i>P. falciparum</i> HRP-2 (Malaria)	R01710	C01932M			
	R01710	C01931M			
	R01710	C01930M			
	R01930M	R01710			
	R01931M	R01710			

## Antigen and Antibody

ANTIGEN	ANTIBODY
R01710	C01932M
R01710	C01931M
R01710	C01930M
R01930M	R01710
R01931M	R01710

## Full product list

Specificity	Catalog #	Type	Host
<b>ALPHAVIRUS</b>			
Alphavirus	C01643M	MAb	Mouse
<b>BORRELIA</b>			
<i>B. afzelii</i>	R14210	Ag	Broth
<i>B. afzelii</i>	R01707	Ag	<i>E. coli</i>
<i>B. afzelii</i> Osp-C	R01576	Ag	<i>E. coli</i>
<i>B. afzelii</i> VlsE	R01609	Ag	<i>E. coli</i>
<i>B. burgdorferi</i> flagellin	R01526	Ag	<i>E. coli</i>
<i>B. burgdorferi</i>	B65302R	PAb	Rabbit
<i>B. burgdorferi</i>	B65303F	PAb	Rabbit
<i>B. burgdorferi</i>	B65304P	PAb	Rabbit
<i>B. burgdorferi</i>	B65307B	PAb	Rabbit
<i>B. burgdorferi</i> Osp-A	C65550M	MAb	Mouse
<i>B. burgdorferi</i> Osp-A	R8A131	Ag	<i>E. coli</i>
<i>B. burgdorferi</i> Osp-C	R01669	Ag	<i>E. coli</i>
<i>B. burgdorferi</i> Osp-C	R8A123	Ag	<i>E. coli</i>
<i>B. burgdorferi</i> VlsE	R01523	Ag	<i>E. coli</i>
<i>B. garinii</i> flagellin	R01521	Ag	<i>E. coli</i>
<i>B. garinii</i> VlsE	R01610	Ag	<i>E. coli</i>
<b>CHAGAS (TRYPANOSOMA CRUZI)</b>			
<i>T. cruzi</i> (Chagas) 1F8	R01436	Ag	<i>E. coli</i>
<i>T. cruzi</i> (Chagas) 1F8	R01587	Ag	<i>E. coli</i>
<i>T. cruzi</i> (Chagas) B13	R01671	Ag	<i>E. coli</i>
<i>T. cruzi</i> (Chagas) chimeric 1	R01684	Ag	<i>E. coli</i>
<i>T. cruzi</i> (Chagas) chimeric 2	R01685	Ag	<i>E. coli</i>
<i>T. cruzi</i> (Chagas) chimeric 3	R02001	Ag	<i>E. coli</i>
<i>T. cruzi</i> (Chagas) FRA	R01589	Ag	<i>E. coli</i>
<i>T. cruzi</i> multiantigen Chimeric Chagas	R01364	Ag	<i>E. coli</i>
<b>CHIKUNGUNYA</b>			
Chikungunya	C01640M	MAb	Mouse
Chikungunya	C01641M	MAb	Mouse
Chikungunya	C01642M	MAb	Mouse
Chikungunya Env.	C01891M	MAb	Mouse
Chikungunya Env.	C01892M	MAb	Mouse
Chikungunya Env.	C01893M	MAb	Mouse
Chikungunya Env.	C01894M	MAb	Mouse
Chikungunya Env.	C01895M	MAb	Mouse
Chikungunya Env. Proteins E1, E2, E3	R01768	Ag	Insect Cells
Chikungunya Capsid	R01703	Ag	<i>E. coli</i>
Chikungunya Capsid	R01704	Ag	<i>E. coli</i>
Chikungunya E1 Mutant	R01654	Ag	Insect Cells
Chikungunya E1 Wild-Type	R01653	Ag	Insect Cells
Chikungunya E1-E2 Wildtype	R01711	Ag	Insect Cells
Chikungunya E2	R01702	Ag	Insect Cells

# Tropical & Vector-Borne diseases

## Full product list continued

Specificity	Catalog #	Type	Host
<b>DENGUE VIRUS</b>			
Dengue Env.	C01896M	MAb	Mouse
Dengue Env. Domain III of Serotypes 1-3	C01898M	MAb	Mouse
Dengue Env. Domain III of Serotypes 1-3	C01899M	MAb	Mouse
Dengue NS1	C01649M	MAb	Mouse
Dengue NS1	C01650M	MAb	Mouse
Dengue NS1	C01651M	MAb	Mouse
Dengue NS1	C01652M	MAb	Mouse
Dengue NS1	C01838M	MAb	Mouse
Dengue NS1	C01913M	MAb	Mouse
Dengue NS1	C01914M	MAb	Mouse
Dengue Types 1,2,3,4	C03045M	MAb	Mouse
Dengue Type 1 (Strain West Pacific 74)	R01687	Ag	Native
Dengue Type 1, Env. (a.a. 281-675)	R01556	Ag	Drosophila
Dengue Type 1, Env. (a.a. 281-675)	R01659	Ag	Drosophila
Dengue Type 1, NS1 (a.a. 777-1131)	R01552	Ag	Drosophila
Dengue Type 1, NS1 (a.a. 777-1131)	R01656	Ag	Drosophila
Dengue Type 2 (Strain 16681)	R02220	Ag	Native
Dengue Type 2, Env. (a.a. 281-675)	R01557	Ag	Drosophila
Dengue Type 2, Env. (a.a. 281-675)	R01660	Ag	Drosophila
Dengue Type 2, Env. N-Terminal	R01431	Ag	<i>E. coli</i>
Dengue Type 2, NS1 (a.a. 777-1131)	R01553	Ag	Drosophila
Dengue Type 2, NS1 (a.a. 777-1131)	R01657	Ag	Drosophila
Dengue Type 2, NS1	R01432	Ag	<i>E. coli</i>
Dengue Type 2 premembrane (prM) Env.	R01767	Ag	Insect Cells
Dengue Type 3 (Strain CH53489)	R01688	Ag	Native
Dengue Type 3, Env. (a.a. 281-673)	R01558	Ag	Drosophila
Dengue Type 3, Env. (a.a. 281-673)	R01661	Ag	Drosophila
Dengue Type 3, NS1 (a.a. 775-1129)	R01554	Ag	Drosophila
Dengue Type 3, NS1 (a.a. 775-1129)	R01658	Ag	Drosophila
Dengue Type 4 (Strain TVP-360)	R01689	Ag	Native
Dengue Type 4, Env. (a.a. 280-674)	R01559	Ag	Drosophila
Dengue Type 4, Env. (a.a. 280-674)	R01662	Ag	Drosophila
Dengue Type 4, NS1 (a.a. 775-1126)	R01591	Ag	<i>E. coli</i>
Dengue Type 4, NS1 (a.a. 776-1130)	R01555	Ag	Drosophila
Dengue Type 4, NS1 (a.a. 776-1130)	R01663	Ag	Drosophila
<b>EBOLA</b>			
Ebola Virus	C01762M	MAb	Mouse
Ebola Virus	C86037M	MAb	Mouse
Ebola Virus	C86180M	MAb	Mouse
Ebola Virus NP	C01964M	MAb	Mouse
Ebola Virus NP	C01965M	MAb	Mouse
Ebola Virus NP	C01966M	MAb	Mouse
Ebola Virus NP	C01967M	MAb	Mouse
Ebola Virus VP40	C01968M	MAb	Mouse
Ebola Virus VP40	C01969M	MAb	Mouse
Ebola Virus VP40	C01970M	MAb	Mouse
Ebola Virus VP40	C01971M	MAb	Mouse
Ebola Virus VP40	C01972M	MAb	Mouse
Ebola Virus VP40	C01973M	MAb	Mouse
Ebola Sudan NP	R01577	Ag	<i>E. coli</i>
Ebola Zaire NP	R01578	Ag	<i>E. coli</i>

Specificity	Catalog #	Type	Host
<b>JAPANESE ENCEPHALITIS (JEV)</b>			
JEV	C01550M	MAb	Mouse
JEV	R01435	Ag	<i>E. coli</i>
JEV NS1	C01976M	MAb	Mouse
JEV NS1	C01977M	MAb	Mouse
JEV NS1	C01978M	MAb	Mouse
JEV NS1	C01979M	MAb	Mouse
JEV NS1	C01980M	MAb	Mouse
<b>LASSA VIRUS</b>			
<i>Lassa Virus GP1 Protein</i>	R01787	Ag	<i>Insect Cells</i>
<b>LEISHMANIA</b>			
<i>L. chagasi</i> K39 (a.a. 680-955)	R01574	Ag	<i>E. coli</i>
<i>L. donovani</i> KMP-11	R01513	Ag	<i>E. coli</i>
<b>LEPTOSPIRA BIFLEXA</b>			
<i>L. biflexa</i>	B65401R	PAb	Rabbit
<b>MARBURG VIRUS</b>			
Marburg Virus	C01424M	MAb	Mouse
Marburg Virus	C01425M	MAb	Mouse
Marburg Virus	C01426M	MAb	Mouse
Marburg Virus	C86103M	MAb	Mouse
<b>NEWCASTLE DISEASE VIRUS (NDV)</b>			
NDV	C01352M	MAb	Mouse
NDV	C86015M	MAb	Mouse
NDV Ribonucleoprotein	C01629M	MAb	Mouse
<b>NIPAH VIRUS (NiV)</b>			
NiV G Protein	C01974M	MAb	Mouse
NiV G Protein	C01975M	MAb	Mouse
NiV G Protein	R01766	Ag	<i>Insect Cells</i>
<b>PLASMODIUM (MALARIA)</b>			
<i>P. falciparum</i> HRP-2	C01584M	MAb	Mouse
<i>P. falciparum</i> HRP-2	C01585M	MAb	Mouse
<i>P. falciparum</i> HRP-2	C01586M	MAb	Mouse
<i>P. falciparum</i> HRP-2	C01816M	MAb	Mouse
<i>P. falciparum</i> HRP-2	C01817M	MAb	Mouse
<i>P. falciparum</i> HRP-2	C01836M	MAb	Mouse
<i>P. falciparum</i> HRP-2	C01837M	MAb	Mouse
<i>P. falciparum</i> HRP-2	C01930M	MAb	Mouse
<i>P. falciparum</i> HRP-2	C01931M	MAb	Mouse
<i>P. falciparum</i> HRP-2	C01932M	MAb	Mouse
<i>P. falciparum</i> MSP1	C86943M	MAb	Mouse
<i>P. falciparum</i> HRP-2	R01710	Ag	<i>E. coli</i>
<i>P. falciparum</i> HRP-2	R01478	Ag	<i>E. coli</i>
<i>P. falciparum</i> MSP1	R01603	Ag	<i>E. coli</i>
<i>P. falciparum</i> MSP1	R01604	Ag	<i>E. coli</i>
<i>P. falciparum</i> MSP3	C86634M	MAb	Mouse
<i>P. falciparum</i> MSP4	C86636M	MAb	Mouse
<i>P. falciparum</i> MSP8	R01601	Ag	<i>E. coli</i>
<i>P. falciparum</i> MSP9	R01602	Ag	<i>E. coli</i>
<i>P. falciparum</i> MSP10	R01439	Ag	<i>E. coli</i>

# Tropical & Vector-Borne diseases

## Full product list continued

Specificity	Catalog #	Type	Host
<i>P. falciparum</i> pAldolase	R01595	Ag	<i>E. coli</i>
<i>P. falciparum</i> pLDH	R01597	Ag	<i>E. coli</i>
<i>P. falciparum</i> pLDH	C01833M	MAb	Mouse
<i>P. vivax</i> CSP	C86328M	MAb	Mouse
<i>P. vivax</i> CSP	R01440	Ag	<i>E. coli</i>
<i>P. vivax</i> pLDH	R01598	Ag	<i>E. coli</i>
Plasmodium HRP-2	R01596	Ag	<i>E. coli</i>
Plasmodium pan pLDH	C01834M	MAb	Mouse
Plasmodium pan pLDH	C01835M	MAb	Mouse
Plasmodium pan pLDH	C66509M	MAb	Mouse
<b>TICK-BORNE ENCEPHALITIS VIRUS</b>			
Tick-borne Encephalitis Virus, gE	R18082	Ag	<i>E. coli</i>
<b>WEST NILE VIRUS</b>			
West Nile Virus Env.	C01538M	MAb	Mouse
West Nile Virus Env.	C01541M	MAb	Mouse
West Nile Virus Env.	C01542M	MAb	Mouse
West Nile Virus Env. N-Terminal	R8A104	Ag	<i>E. coli</i>
West Nile Virus Pre-M, N-Terminal	R8A560	Ag	<i>E. coli</i>
<b>YELLOW FEVER VIRUS</b>			
Yellow Fever NS1	C01906M	MAb	Mouse
Yellow Fever NS1	C01907M	MAb	Mouse
Yellow Fever NS1	C01908M	MAb	Mouse
Yellow Fever NS1	C01909M	MAb	Mouse
Yellow Fever NS1	C01910M	MAb	Mouse
Yellow Fever NS1	C01911M	MAb	Mouse
Yellow Fever NS1	C01912M	MAb	Mouse
Yellow Fever NS1	R01706	Ag	Insect Cells
Yellow Fever Env.	R01709	Ag	Insect Cells
<b>ZIKA VIRUS</b>			
Zika Env.	C01860M	MAb	Mouse
Zika Env.	C01861M	MAb	Mouse
Zika Env.	C01862M	MAb	Mouse
Zika Env.	C01863M	MAb	Mouse
Zika Env.	C01937M	MAb	Mouse
Zika NS1	C01864M	MAb	Mouse
Zika NS1	C01865M	MAb	Mouse
Zika NS1	C01866M	MAb	Mouse
Zika NS1	C01867M	MAb	Mouse
Zika NS1	C01868M	MAb	Mouse
Zika NS1	C01869M	MAb	Mouse
Zika NS1	C01870M	MAb	Mouse
Zika NS1	C01887M	MAb	Mouse
Zika NS1	C01888M	MAb	Mouse
Zika NS1	C01889M	MAb	Mouse
Zika NS1	C01890M	MAb	Mouse
Zika Env.	R01635	Ag	Insect Cells
Zika NS1	R01636	Ag	Insect Cells
Zika NS1	C01885G	PAb	Goat
Zika NS1, Affinity Purified	C01886G	PAb	Goat

# ToRCH & Childhood Diseases

ToRCH is an acronym for a group of infections that can cause congenital abnormalities and it has become an important part of prenatal care to recognize these infections in the first trimester of pregnancy.

ToRCH tests measure antibodies against five groups of chronic infections and all of these infectious diseases are associated with congenital abnormalities resulting from maternal infection:

- Toxoplasmosis
- Rubella
- Cytomegalovirus (CMV)
- Herpes simplex virus (HSV)
- Other infections (usually Syphilis, Hepatitis B, Coxsackie virus, Epstein-Barr virus, Varicella-zoster virus, and Human parvovirus)

Although the organisms typically cause only asymptomatic or mild infection to the mother, they can have much more serious consequences to the fetus. If the infection occurs during the first three months of pregnancy and if it is a primary infection (newly acquired during pregnancy), the risk of congenital abnormalities is much higher compared to a secondary or reactivated infection. An important part of prenatal care is to recognize these infections in the mother and the fetus and provide suitable care.

For most ToRCH organisms, the initial screening test is based on the detection of antibodies to the organism. Assays are commercially available for the detection of IgG, IgM, or both IgG and IgM antibodies. In most cases, IgG reactivity in the absence of IgM reactivity is indicative of a past infection, while IgM reactivity in the absence of IgG reactivity indicates a current infection. However, for some ToRCH diseases such as toxoplasmosis and CMV, IgG avidity has recently been found to be useful for identifying primary infections. An IgG antibody produced in the first few months following an initial infection has a lower avidity than an IgG antibody produced several months or years later. Consequently, low-avidity antibody can be used to specifically identify high-risk mothers with a primary infection. To protect a fetus from ToRCH infections, early diagnosis through first trimester screening is critical.

## Antibody Pairs

	CAPTURE	DETECTION
Listeria	C01686M	R C01687M
	C01688M	R C01686M
	C01686M	C01689M
Rotavirus	C01729M	C01730M
	C65196M	C65194M
	C65196M	C65197M
RSV	C65063M	C65065M
	C01770M	C01776M
	C01775M	C01773M
	C01775M	C01774M
	C01769M	C01773M
	C01770M	C01773M
	C01774M	C01773M
	C65064M	C65065M

## Antigen Pairs

	CAPTURE	DETECTION
T. pallidum (Syphilis)	R01681	R01682

R - Reversible



# ToRCH & Childhood Diseases

## Full product list

Specificity	Catalog #	Type	Host
<b>COXSACKIE</b>			
Coxsackie A16 (G10 Strain)	R17160	Ag	Native
Coxsackie A9 (P.B. Bozek Strain)	R17900	Ag	Native
Coxsackievirus B1 (Tucson Strain) VP1	R01517	Ag	<i>E. coli</i>
<b>CYTOMEGALOVIRUS (CMV)</b>			
CMV (Strain AD 169)	B47821R	PAb	Rabbit
CMV Glycoprotein B	C65826M	MAb	Mouse
CMV Glycoprotein B	C8A024M	MAb	Mouse
CMV 65kDa EA	C86314M	MAb	Mouse
CMV 65kDa LA	C65089M	MAb	Mouse
CMV 70kDa IEA	C65841M	MAb	Mouse
CMV pp65	C01245M	MAb	Mouse
CMV pp65	C8A023M	MAb	Mouse
CMV pp72 IEA	C8A022M	MAb	Mouse
CMV Antigen II	EV9268	Ag	Native
CMV Chimeric 1	R01686	Ag	<i>E. coli</i>
CMV Glycoprotein B (C194 Strain)	R18102	Ag	<i>E. coli</i>
CMV Glycoprotein B	EV7509	Ag	Native
CMV Grade III Antigen	7507	Ag	Native
CMV (Strain AD 169)	7600	Ag	Native
CMV pp38 (UL80a) (Strain AD 169)	R18512	Ag	<i>E. coli</i>
CMV pp52 (UL44)	R01561	Ag	<i>E. coli</i>
CMV pp52 (UL44)	R01565	Ag	<i>E. coli</i>
CMV pp52 (UL44)	R18062	Ag	<i>E. coli</i>
CMV pp65 (UL83) (Strain AD 169)	R18412	Ag	<i>E. coli</i>
CMV pp72 (UL123)	R01524	Ag	<i>E. coli</i>
CMV pp150 (UL32)	R01563	Ag	<i>E. coli</i>
CMV pp150 (UL32)	R01564	Ag	<i>E. coli</i>
CMV pp150 (UL32) (Strain AD 169)	R18113	Ag	<i>E. coli</i>
CMV-EXT-2, Concentrate	7517	Ag	Native
CMV-G	7504	Ag	Native
CMV-M, Concentrate	7511	Ag	Native
<b>ENTEROVIRUS</b>			
Enterovirus 70	C01670M	MAb	Mouse
Enterovirus A Coxsackie A16	R01763	Ag	<i>E. coli</i>
Enterovirus A EV71	R01764	Ag	<i>E. coli</i>
Enterovirus B Echo 18	R01735	Ag	<i>E. coli</i>
Enterovirus B Cox B3	R01737	Ag	<i>E. coli</i>
Enterovirus C Cox A24	R01736	Ag	<i>E. coli</i>
Enterovirus D EV70	R01765	Ag	<i>E. coli</i>
Enterovirus Pan-reactive VP3	C01700M	MAb	Mouse
<b>EPSTEIN-BARR VIRUS (EBV)</b>			
EBV	7420	Ag	Native
EBV	R02100	Ag	Native
EBV Epstein-Bar Nuclear Antigen-1	R01672	Ag	<i>E. coli</i>
EBV (HHV-4) Early Antigen D	R18740	Ag	<i>E. coli</i>
EBV (HHV-4) p23	R18230	Ag	<i>E. coli</i>
EBV Early Antigen (BAM HI-Z) Zeta Protein	C65506M	MAb	Mouse
EBV Early Antigen (Restricted)	C65502M	MAb	Mouse
EBV Early Antigen-D	C65026M	MAb	Mouse
EBV gp220/350	C65221M	MAb	Mouse
EBV gp220/350	C65223M	MAb	Mouse

Specificity	Catalog #	Type	Host
EBV Latent Membrane Protein 2A	C01285R	MAb	Rat
EBV Nuclear Antigen-1	B65102G	PAb	Goat
EBV Nuclear Antigen-1	R01522	Ag	<i>E. coli</i>
EBV p138, Early Antigen D	R01525	Ag	<i>E. coli</i>
EBV p54, Early Antigen D	R01575	Ag	<i>E. coli</i>
EBV Viral Capsid Antigen gp125	8202	Ag	Native
EBV Viral Capsid Antigen p18	R01571	Ag	<i>E. coli</i>
EBV Viral Capsid Antigen p23	R01570	Ag	<i>E. coli</i>
EBV Viral Capsid Antigen	C65023M	MAb	Mouse
EBV Viral Capsid Antigen gp125	C66405M	MAb	Mouse
<b>HERPES SIMPLEX VIRUS (HSV)</b>			
HSV Type 1	B65131G	PAb	Goat
HSV Type 1	B65133G	PAb	Goat
HSV Type 1	B65134G	PAb	Goat
HSV Type 2	B65121S	PAb	Sheep
HSV Type 2	B65123S	PAb	Sheep
HSV Type 2	B65124S	PAb	Sheep
HSV Type 1	C01290M	MAb	Mouse
HSV Type 1	C01291M	MAb	Mouse
HSV Type 1	7305	Ag	Native
HSV Type 1 Concentrate	7309	Ag	Native
HSV Type 1 Glycoprotein D	R18430	Ag	<i>E. coli</i>
HSV Type 1 Glycoprotein D	VTI510	Ag	<i>P. pastoris</i>
HSV Type 1 Glycoprotein C	C65141M	MAb	Mouse
HSV Type 1 Glycoprotein D	C8A020M	MAb	Mouse
HSV Type 1 Glycoprotein E	C65120M	MAb	Mouse
HSV Type 1 Glycoprotein G	VTI520	Ag	<i>S. cerevisiae</i>
HSV Type 1 Glycoprotein G-1	C66150M	MAb	Mouse
HSV Type 1 Nucleocapsid Protein (155kDa)	C05014MA	MAb	Mouse
HSV Type 2	C01292M	MAb	Mouse
HSV Type 2	7705	Ag	Native
HSV Type 2 Concentrate	7749	Ag	Native
HSV Type 2 Glycoprotein D	VTI540	Ag	<i>P. pastoris</i>
HSV Type 2 Glycoprotein D	R18530	Ag	<i>E. coli</i>
HSV Type 2 Glycoprotein D	C86302M	MAb	Mouse
HSV Type 2 Glycoprotein D	C01859M	MAb	Mouse
HSV Type 2 Glycoprotein E	C65901M	MAb	Mouse
HSV Type 2 Glycoprotein G-2	C66501M	MAb	Mouse
HSV Type 2 Glycoprotein G-2	C66516M	MAb	Mouse
HSV Type 2 Glycoprotein G	C65116M	MAb	Mouse
HSV Type 2 Glycoprotein G	R18350	Ag	<i>E. coli</i>
HSV Type 2 Glycoprotein G	VTI530	Ag	<i>S. cerevisiae</i>
HSV Type 2 Glycoprotein G	EV9287	Ag	Native
HSV Type 2 Glycoprotein G	R01673	Ag	<i>E. coli</i>
HSV Types 1 & 2	B65107R	PAb	Rabbit
HSV Types 1 & 2	B65205R	PAb	Rabbit
HSV Types 1 & 2 Glycoprotein D	C01294M	MAb	Mouse
HSV Types 1 & 2 Glycoprotein D	C65912M	MAb	Mouse
<b>HUMAN HERPES VIRUS (HHV)</b>			
HHV Type 6 37kDa EA	C65206M	MAb	Mouse
HHV Type 6 gp60/110	C65020M	MAb	Mouse
HHV Type 6 p150	C65200M	MAb	Mouse



# ToRCH & Childhood Diseases

## Full product list continued

Specificity	Catalog #	Type	Host
<b>LISTERIA</b>			
<i>L. flagella</i>	C01917M	MAb	Mouse
Listeria	G5V99-500	PAb	Goat
<i>L. monocytogenes</i>	A01710N	Ag	Culture
<i>L. monocytogenes</i>	B65420B	PAb	Rabbit
<i>L. monocytogenes</i>	B65420F	PAb	Rabbit
<i>L. monocytogenes</i>	B65420P	PAb	Rabbit
<i>L. monocytogenes</i>	B65420R	PAb	Rabbit
<i>L. monocytogenes</i> P60	C01686M	MAb	Mouse
<i>L. monocytogenes</i> P60	C01687M	MAb	Mouse
<i>L. monocytogenes</i> P60	C01688M	MAb	Mouse
<i>L. monocytogenes</i> P60	C01689M	MAb	Mouse
<b>LYMPHOCYTIC CHORIOMENINGITIS VIRUS (LCMV)</b>			
LCMV	C44104M	MAb	Mouse
<b>MUMPS</b>			
Mumps Grade III	EV9529	Ag	Native
Mumps Virus	8099	Ag	Native
Mumps Virus (NP)	C01719M	MAb	Mouse
Mumps Virus (NP)	C01720M	MAb	Mouse
Mumps Virus (NP)	C01721M	MAb	Mouse
<b>PARVOVIRUS</b>			
Parvovirus B19 NS1	R01637	Ag	<i>E. coli</i>
Parvovirus B19 VP1	R01638	Ag	<i>E. coli</i>
Parvovirus B19 VP1 (a.a. 1-230)	R01640	Ag	<i>E. coli</i>
Parvovirus B19 VP1 (a.a. 1-486)	R01642	Ag	<i>E. coli</i>
Parvovirus B19 VP1 (a.a. 313-781)	R01643	Ag	<i>E. coli</i>
Parvovirus B19 VP1/VP2 (a.a. 485-781)	R01641	Ag	<i>E. coli</i>
Parvovirus B19 VP2	R01639	Ag	Sf9 Cells
Parvovirus B19 VP2 (a.a. 233-781)	R01644	Ag	<i>E. coli</i>
Parvovirus B19 VP2	C01718M	MAb	Mouse
<b>POLIOVIRUS</b>			
Poliovirus 1	C30510M	MAb	Mouse
Poliovirus 3	C30027M	MAb	Mouse
<b>RESPIRATORY SYNCYTIAL VIRUS (RSV)</b>			
RSV	B65820G	PAb	Goat
RSV	B65830G	PAb	Goat
RSV	B65840G	PAb	Goat
RSV	B65860G	PAb	Goat
RSV (NP)	C01287M	MAb	Mouse
RSV (NP)	C65067F	MAb	Mouse
RSV (NP)	C65067M	MAb	Mouse
RSV (NP)	C66432M	MAb	Mouse
RSV (NP)	C87320M	MAb	Mouse
RSV Fusion Protein	C01769M	MAb	Mouse
RSV Fusion Protein	C01770M	MAb	Mouse
RSV Fusion Protein	C01771M	MAb	Mouse
RSV Fusion Protein	C01772M	MAb	Mouse
RSV Fusion Protein	C01773M	MAb	Mouse
RSV Fusion Protein	C01774M	MAb	Mouse
RSV Fusion Protein	C01775M	MAb	Mouse

Specificity	Catalog #	Type	Host
RSV Fusion Protein	C01776M	MAb	Mouse
RSV Fusion Protein	C01777M	MAb	Mouse
RSV Fusion Protein	C65063M	MAb	Mouse
RSV Fusion Protein	C65064M	MAb	Mouse
RSV Fusion Protein	C65065M	MAb	Mouse
RSV Fusion Protein	C65816M	MAb	Mouse
RSV Fusion Protein	C87610M	MAb	Mouse
RSV Fusion Protein (46kDa & 22kDa S-S linked glycoprotein)	C01286M	MAb	Mouse
RSV Fusion Protein, Type A and B Strains	C01626M	MAb	Mouse
RSV Long Strain	C01694M	MAb	Mouse
RSV Long Strain	C86001M	MAb	Mouse
RSV Long Strain	R29124	Ag	Native
RSV Long Strain	R86900	Ag	Native
RSV Antigen (Long Strain) >10% Viral Protein	8175	Ag	FRHK Cells
<b>ROTAVIRUS</b>			
Rotavirus	C01729M	MAb	Mouse
Rotavirus	C01730M	MAb	Mouse
Rotavirus	C65194M	MAb	Mouse
Rotavirus	C65196M	MAb	Mouse
Rotavirus	C65197M	MAb	Mouse
Rotavirus broad reactivity	C65521M	MAb	Mouse
Rotavirus Group A Specific Antigen, (Vp6)	C01295M	MAb	Mouse
Rotavirus Group A Specific Antigen, (Vp6)	C66130M	MAb	Mouse
Rotavirus Group Specific Antigen	C86310M	MAb	Mouse
Rotavirus (Vp6)	R01728	Ag	<i>E. coli</i>
Rotavirus (Vp7)	C01715M	MAb	Mouse
Rotavirus (Nebraska Calf Diarrhea Virus)(all antigens)	B65110G	PAb	Goat
Rotavirus (Nebraska Calf Diarrhea Virus)(all antigens)	B65211G	PAb	Goat
Rotavirus (Nebraska Calf Diarrhea Virus)(all antigens)	B65212G	PAb	Goat
Rotavirus (Nebraska Calf Diarrhea Virus)(all antigens)	B65213G	PAb	Goat
Rotavirus (all serotypes)	B01235S	PAb	Sheep
Rotavirus SA-11	7844	Ag	Native
<b>RUBELLA</b>			
Rubella (Virions)	B65105G	PAb	Goat
Rubella (Virions)	B65703F	PAb	Goat
Rubella (Virions)	B65704P	PAb	Goat
Rubella (Clone 2-42)	EV9526	MAb	Mouse
Rubella (Clone 2-6)	EV9525	MAb	Mouse
Rubella Capsid (C)	C66496M	MAb	Mouse
Rubella E1	C66499M	MAb	Mouse
Rubella E1	C66503M	MAb	Mouse
Rubella Virus E1	C86323M	MAb	Mouse
Rubella Virus, Purified, Strain HPV-77	9601	Ag	Vero Cells
Rubella Virus E1 Mosaic	R01491	Ag	<i>E. coli</i>
Rubella Virus E1 Mosaic	R18192	Ag	<i>E. coli</i>
Rubella Virus E2	R18292	Ag	<i>E. coli</i>
Rubella Capsid (C)	R18092	Ag	<i>E. coli</i>
Rubella IgM MAX™	6200	Ag	Native
Rubella Virus Grade III	6075	Ag	Native
Rubella Virus Grade IV	6076	Ag	Native
Rubella Virus Grade IV PBS	6123	Ag	Native



# ToRCH & Childhood Diseases

## Full product list continued

Specificity	Catalog #	Type	Host
<b>RUBEOLA (MEASLES)</b>			
Rubeola	C01723M	MAb	Mouse
Rubeola	C01724M	MAb	Mouse
Rubeola	C01725M	MAb	Mouse
Rubeola	C01726M	MAb	Mouse
Rubeola	7604	Ag	Native
Rubeola (Edmonston Strain)	R14120	Ag	Native
Rubeola (NP)	EV9298	Ag	Sf9 Cells
<b>STREPTOCOCCUS</b>			
Streptococcus Group B	B65524P	PAb	Rabbit
Streptococcus Group B	B65527B	PAb	Rabbit
Streptococcus Group B	B65527R	PAb	Rabbit
<b>TOXOPLASMA GONDII</b>			
<i>T. gondii</i> (tachyzoites)	B01438R	PAb	Rabbit
<i>T. gondii</i>	C86319M	MAb	Mouse
<i>T. gondii</i> (38kDa protein)	C01589M	MAb	Mouse
<i>T. gondii</i> (MIC3)	C01587M	MAb	Mouse
<i>T. gondii</i> p30 (SAG1)	C65620M	MAb	Mouse
<i>T. gondii</i> (SAG1)	C01523M	MAb	Mouse
<i>T. gondii</i> (RH Strain)	8200	Ag	Native
<i>T. gondii</i> (RH Strain) Concentrated	8158	Ag	Native
<i>T. gondii</i>	8159	Ag	Native
<i>T. gondii</i> p29 (GRA7)	R18306	Ag	<i>E. coli</i>
<i>T. gondii</i> p30 (SAG1)	R01573	Ag	<i>E. coli</i>
<i>T. gondii</i> p30 (SAG1)	R18426	Ag	<i>E. coli</i>
<i>T. gondii</i> p35 (GRA8)	R01581	Ag	<i>E. coli</i>
<b>TREPONEMA PALLIDUM (SYPHILIS)</b>			
<i>T. pallidum</i>	B65210B	PAb	Rabbit
<i>T. pallidum</i>	B65210F	PAb	Rabbit
<i>T. pallidum</i>	B65210P	PAb	Rabbit
<i>T. pallidum</i>	B65210R	PAb	Rabbit
<i>T. pallidum</i>	C65811M	MAb	Mouse
<i>T. pallidum</i> and <i>T. reiteri</i>	C01706M	MAb	Mouse
<i>T. pallidum</i> p15	R01531	Ag	<i>E. coli</i>
<i>T. pallidum</i> p15	R01582	Ag	<i>E. coli</i>
<i>T. pallidum</i> p15	R8A101	Ag	<i>E. coli</i>
<i>T. pallidum</i> p15/p17/p47	R01681	Ag	<i>E. coli</i>
<i>T. pallidum</i> p15/p17/p47	R01682	Ag	Mouse
<i>T. pallidum</i> p17	R01497	Ag	<i>E. coli</i>
<i>T. pallidum</i> p17	R01528	Ag	<i>E. coli</i>
<i>T. pallidum</i> p17	R01583	Ag	<i>E. coli</i>
<i>T. pallidum</i> p17	R8A201	Ag	<i>E. coli</i>
<i>T. pallidum</i> p17	C01705M	MAb	Mouse
<i>T. pallidum</i> p17	C01707M	MAb	Mouse
<i>T. pallidum</i> p17/p15/p44.5/p47	R01705	Ag	<i>E. coli</i>
<i>T. pallidum</i> p41	R01529	Ag	<i>E. coli</i>
<i>T. pallidum</i> p41	R18044	Ag	<i>E. coli</i>
<i>T. pallidum</i> p41	R18830	Ag	<i>E. coli</i>
<i>T. pallidum</i> p47	C01261M	MAb	Mouse

Specificity	Catalog #	Type	Host
<i>T. pallidum</i> p47	C01263M	MAb	Mouse
<i>T. pallidum</i> p47, mosaic of immunodominant regions	R01568	Ag	<i>E. coli</i>
<i>T. pallidum</i> p47	R01606	Ag	<i>E. coli</i>
<i>T. pallidum</i> p47	R8A403	Ag	<i>E. coli</i>
<i>T. pallidum</i> , Treponemal Membrane Protein A Full Length	R01632	Ag	<i>E. coli</i>
<i>T. pallidum</i> , Treponemal Membrane Protein A	R01530	Ag	<i>E. coli</i>
<i>T. pallidum</i> , Treponemal Membrane Protein A	R01665	Ag	<i>E. coli</i>
<i>T. pallidum</i> , Treponemal Membrane Protein A	R8A404	Ag	<i>E. coli</i>
<b>VARICELLA ZOSTER VIRUS (VZV)</b>			
VZV (gpI & IV) (VZVgE & gl)	C05100MA	MAb	Mouse
VZV (gpI & IV) (VZVgE & gl)	C05101MA	MAb	Mouse
VZV (gpII) (VZVgB)	C05102MA	MAb	Mouse
VZV (gpIII) (VZVgH)	C05104MA	MAb	Mouse
VZV (gpIV) (VZVgl)	C05105MA	MAb	Mouse
VZV (Mixed)	C05108MA	MAb	Mouse
VZV 175kDa, gene 62	C05107MA	MAb	Mouse
VZV	7209	Ag	Native
VZV gE (Ellen Strain)	R18330	Ag	<i>E. coli</i>
VZV Glycoprotein (Ellen Strain)	R14041	Ag	HEL Cells
VZV II	7740	Ag	Native
VZV PBS	7201	Ag	Native
<b>ZIKA VIRUS</b>			
Zika Virus Env.	R01635	Ag	Insect Cells
Zika Virus Env.	C01860M	MAb	Mouse
Zika Virus Env	C01861M	MAb	Mouse
Zika Virus Env.	C01862M	MAb	Mouse
Zika Virus Env.	C01863M	MAb	Mouse
Zika Virus Env.	C01937M	MAb	Mouse
Zika Virus NS1	C01864M	MAb	Mouse
Zika Virus NS1	C01865M	MAb	Mouse
Zika Virus NS1	C01866M	MAb	Mouse
Zika Virus NS1	C01867M	MAb	Mouse
Zika Virus NS1	C01868M	MAb	Mouse
Zika Virus NS1	C01869M	MAb	Mouse
Zika Virus NS1	C01870M	MAb	Mouse
Zika Virus NS1	C01887M	MAb	Mouse
Zika Virus NS1	C01888M	MAb	Mouse
Zika Virus NS1	C01889M	MAb	Mouse
Zika Virus NS1	C01890M	MAb	Mouse
Zika Virus NS1	R01636	Ag	Insect Cells
Zika Virus NS1	C01885G	PAb	Goat
Zika Virus NS1, Affinity Purified	C01886G	PAb	Goat

# Hepatitis

Hepatitis refers to an inflammatory condition of the liver. It is commonly caused by a viral infection from one of five unrelated hepatotropic viruses: hepatitis A (HAV), hepatitis B (HBV), hepatitis C (HCV), hepatitis D (HDV) and hepatitis E (HEV).

HAV is an acute, short-term disease, which is commonly transmitted by consuming food or water contaminated by feces from an infected person. HBV and HCV are transmitted through direct contact with infectious body fluids such as blood, or semen, and typically lead to an ongoing, chronic form of liver disease. HDV is a rare form of hepatitis that only occurs in conjunction with HBV infection as the virus cannot multiply without the presence of HBV. HEV is a waterborne disease mainly found in areas with poor sanitation and typically results from ingesting fecal matter that contaminates the water supply. The disease is usually acute but can be particularly dangerous in pregnant women.

Viral hepatitis is primarily diagnosed through blood tests for levels of viral antigens, anti-viral antibodies, or viral DNA/RNA. Overall, hepatitis causes more than a million deaths a year, most of which occur indirectly from liver scarring or liver cancer.

## Antibody Pairs

	CAPTURE	DETECTION	CAPTURE	DETECTION	
Hepatitis B Virus Core Antigen (HBcAg)	C86317M	C86340M	Hepatitis B Surface Antigen (ad/ay) (HBsAg)	C01246M	C01249M
	C01556M	C01558M		C01246M	C01250M
	C01556M	C01557M		C01246M	B65811P
Hepatitis B 'e' Antigen (HBeAg)	C86743M	C86334M		C01247M	B65811P
	C86843M	C86534M		C18212M	C18286M
	C65218M	C65318M		C01247M	C01249M
	C65218M	C65814M		C01248M	C01249M
	C01693M	C01692M		C01248M	B65811P
	C01549M	C01548M		C01465M	C01457M
Hepatitis B Surface Antigen (HBsAg)	C86303M	C86401M		C01458M	C01465M
			Hepatitis B Surface Antigen (ayw) (HBsAg)	C86312M	C86600M
				C86322M	C86600M
				C86612M	C86600M
				C86612M	C86322M
Hepatitis C Virus (HCV) Core Antigen			Hepatitis C Virus (HCV) Core Antigen	C01251M	C01252M
				C01251M	C01253M
				C01252M	C65317M
				C01253M	C65317M
				R01599	R01600

## Full product list

Specificity	Catalog #	Type	Host
<b>HEPATITIS A VIRUS (HAV)</b>			
HAV	C01853M	MAb	Mouse
HAV	C01854M	MAb	Mouse
HAV	C01855M	MAb	Mouse
HAV	C65881M	MAb	Mouse
HAV Surface Protein	C65885M	MAb	Mouse
HAV Strain HM175	B65808G	PAb	Goat
HAV >60% Viral Protein	8198	Ag	FRRhK-4 Cells
HAV Concentrate, >60% Viral Protein	8505	Ag	FRRhK-4 Cells
HAV VP1	R18710	Ag	<i>E. coli</i>
HAV VP1-P2A	R18810	Ag	<i>E. coli</i>
HAV VP3	R18610	Ag	<i>E. coli</i>
<b>HEPATITIS B CORE ANTIGEN (HBCAG)</b>			
HBcAg	C01556M	MAb	Mouse
HBcAg	C01557M	MAb	Mouse
HBcAg	C01558M	MAb	Mouse
HBcAg	C86317M	MAb	Mouse
HBcAg	C86340M	MAb	Mouse
HBcAg (ayw) (~80 a.a.)	C8A035M	MAb	Mouse
HBcAg (ayw) (a.a. 1-10)	C8A036M	MAb	Mouse
HBcAg (ayw) (a.a. 130-140)	C8A038M	MAb	Mouse
HBcAg (ayw) (a.a. 135-140)	C8A034B	MAb	Mouse
HBcAg (ayw) (a.a. 138-145)	C8A037M	MAb	Mouse
HBcAg (ayw) (a.a. 70-80)	C8A033M	MAb	Mouse
HBcAg (184 a.a.) 19kDa	R65914	Ag	<i>E. coli</i>
HBcAg (a.a. 1-144) 14kDa	R8A100	Ag	<i>E. coli</i>
HBcAg (a.a. 1-183) 18kDa	R8A120	Ag	<i>E. coli</i>
HBcAg (183 a.a.)	VTI610	Ag	<i>P. pastoris</i>
<b>HEPATITIS B 'E' ANTIGEN (HBEAG)</b>			
HBeAg	C01548M	MAb	Mouse
HBeAg	C01549M	MAb	Mouse
HBeAg	C01692M	MAb	Mouse
HBeAg	C01693M	MAb	Mouse
HBeAg	C31170M	MAb	Mouse
HBeAg	C65218M	MAb	Mouse
HBeAg	C65318M	MAb	Mouse
HBeAg	C65814M	MAb	Mouse
HBeAg	C86334M	MAb	Mouse
HBeAg	C86534M	MAb	Mouse
HBeAg	C86743M	MAb	Mouse
HBeAg	C86843M	MAb	Mouse
HBeAg (160 a.a.) 17kDa	R65915	Ag	<i>E. coli</i>
HBeAg	R01401	Ag	<i>E. coli</i>
HBeAg	R18915	Ag	<i>E. coli</i>
<b>HEPATITIS B SURFACE ANTIGEN (HBSAG)</b>			
HBsAg	C01815M	MAb	Mouse
HBsAg	C86303M	MAb	Mouse
HBsAg	C86401M	MAb	Mouse
HBsAg	C86612M	MAb	Mouse
HBsAg	MAV18-511	MAb	Mouse
HBsAg (ad)	C45098M	MAb	Mouse



# Hepatitis

## Full product list continued

Specificity	Catalog #	Type	Host
HBsAg (ad)	R01437	Ag	Human Plasma
HBsAg (ad)	R01507	Ag	Human
HBsAg (ad)	R01289	Ag	<i>S. cerevisiae</i>
HBsAg	B01435G	PAb	Goat
HBsAg (ad/ay)	B65811B	PAb	Rabbit
HBsAg (ad/ay)	B65811F	PAb	Rabbit
HBsAg (ad/ay)	B65811R	PAb	Rabbit
HBsAg (ad/ay)	B65811P	PAb	Rabbit
HBsAg (ad/ay)	B65180G	PAb	Goat
HBsAg (ad/ay)	B65803F	PAb	Goat
HBsAg (ad/ay)	B65804P	PAb	Goat
HBsAg (ad/ay)	B65807B	PAb	Goat
HBsAg (ad/ay)	C01455M	MAb	Mouse
HBsAg (ad/ay)	C01456M	MAb	Mouse
HBsAg (ad/ay)	C45100M	MAb	Mouse
HBsAg (ad/ay)	C92100M	MAb	Mouse
HBsAg (ad/ay)	C01246M	MAb	Mouse
HBsAg (ad/ay)	C01247M	MAb	Mouse
HBsAg (ad/ay)	C01248M	MAb	Mouse
HBsAg (ad/ay)	C01249M	MAb	Mouse
HBsAg (ad/ay)	C01250M	MAb	Mouse
HBsAg (ad/ay)	C01457M	MAb	Mouse
HBsAg (ad/ay)	C01458M	MAb	Mouse
HBsAg (ad/ay)	C01465M	MAb	Mouse
HBsAg (ad/ay)	C18212M	MAb	Mouse
HBsAg (ad/ay)	C18286M	MAb	Mouse
HBsAg (ad/ay)	B03504C	Ag	Horse
HBsAg (adr)	R01652	Ag	CHO Cells
HBsAg (adw)	R01403	Ag	<i>P. pastoris</i>
HBsAg (adw)	R18560	Ag	<i>P. pastoris</i>
HBsAg (adw)	R86872	Ag	<i>S. cerevisiae</i>
HBsAg (ayw)	C86312M	MAb	Mouse
HBsAg (ayw)	C86313M	MAb	Mouse
HBsAg (ayw)	C86322M	MAb	Mouse
HBsAg (ayw)	C86600M	MAb	Mouse
HBsAg (adw/ayw)	C8A032M	MAb	Mouse
HBsAg (ay)	C45704M	MAb	Mouse
HBsAg (ay)	MAV18-004	MAb	Mouse
HBsAg (ay)	R01508	Ag	Human
HBsAg (ay)	R01290	Ag	<i>S. cerevisiae</i>
HBsAg (ayw)	R86870	Ag	<i>S. cerevisiae</i>
HEPATITIS B			
Hepatitis B Presurface S1 (108 a.a.) 13.5kDa	R65913	Ag	<i>E. coli</i>
Hepatitis B Presurface S1+S2	R01579	Ag	<i>E. coli</i>
Hepatitis B Presurface S2	R01580	Ag	<i>E. coli</i>
Hepatitis B Presurface (adw) (a.a. 132-137)	C8A031M	MAb	Mouse
Hepatitis B X Antigen	C01766M	MAb	Mouse
Hepatitis B X Antigen	C01767M	MAb	Mouse
Hepatitis B X Antigen	C01768M	MAb	Mouse

Specificity	Catalog #	Type	Host
<b>HEPATITIS C VIRUS (HCV)</b>			
HCV Core Antigen	C11423M	MAb	Mouse
HCV Core Antigen	C65185M	MAb	Mouse
HCV Core Antigen (a.a. 1-80)	C8A016B	MAb	Mouse
HCV Core Antigen (a.a. 1-80)	C8A016F	MAb	Mouse
HCV Core Antigen (a.a. 1-80)	C8A016M	MAb	Mouse
HCV Core Antigen (a.a. 1-120)	B65168G	PAb	Goat
HCV Core Antigen (a.a. 2-192)	C8A117M	MAb	Mouse
HCV Core Antigen (a.a. 33-38)	C65317M	MAb	Mouse
HCV Core Antigen (a.a. 70-90)	C8A216M	MAb	Mouse
HCV Core Antigen (a.a. 80-120)	C8A017B	MAb	Mouse
HCV Core Antigen 1a and 2	C01251M	MAb	Mouse
HCV Core Antigen 1a and 2	C01252M	MAb	Mouse
HCV Core Antigen Genotypes 1a and 2	C01253M	MAb	Mouse
HCV Core Antigen (a.a. 2-120) Genotype 1	R18140	Ag	<i>E. coli</i>
HCV Core Antigen (a.a. 2-192)	R8A115	Ag	<i>E. coli</i>
HCV Core NS3/NS4/NS5	R01599	Ag	<i>E. coli</i>
HCV Core NS3/NS4/NS5	R01600	Ag	<i>E. coli</i>
HCV NS-3 (a.a. 1450-1643)	R8A442	Ag	<i>E. coli</i>
HCV NS-3 c33c (a.a. 1192-1459) Genotype 1a	R01518	Ag	<i>E. coli</i>
HCV E1	B01437G	PAb	Goat
HCV E1	C65198M	MAb	Mouse
HCV E2	C65167M	MAb	Mouse
HCV E2 (a.a. 384-665)	B65581G	PAb	Goat
HCV NS-3	C65371M	MAb	Mouse
HCV NS-3 Region (a.a. 1252-1477)	C65859M	MAb	Mouse
HCV NS-3 Region (a.a. 1350-1460)	C8A217M	MAb	Mouse
HCV NS-3 Region	B65178G	PAb	Goat
HCV NS-3 c33c (a.a. 1192-1459) Subtype 1a	R18358	Ag	<i>E. coli</i>
HCV NS-3 c33c (a.a. 1192-1459) Subtype 2b	R18800	Ag	<i>E. coli</i>
HCV NS-3, C-Terminal	R01234	Ag	<i>E. coli</i>
HCV NS-4	R18541	Ag	<i>E. coli</i>
HCV NS-4 Region	B65188G	PAb	Goat
HCV NS-4 Region (Recomb. & Native)	C8A018F	MAb	Mouse
HCV NS-4 Region (Recomb. & Native)	C8A018M	MAb	Mouse
HCV NS-4a Region (a.a. 1700-1710)	C8A236M	MAb	Mouse
HCV NS-4b Region (a.a. 1710-1730)	C8A246M	MAb	Mouse
HCV NS-4a+b Antigen (a.a. 1658-1863)	R8A116	Ag	<i>E. coli</i>
HCV NS-5 (a.a. 2212-2313) Genotype 1	R18190	Ag	<i>E. coli</i>
HCV NS-5 (a.a. 2322-2423) Genotype 1a	R18206	Ag	<i>E. coli</i>
HCV NS-5a Region	C65388M	MAb	Mouse
HCV NS-5a Region (a.a. 2190-2300)	C8A256M	MAb	Mouse
HCV Nucleocapsid NS3/NS4/NS5	R18523	Ag	<i>E. coli</i>
HCV Nucleocapsid Protein	VTI710	Ag	<i>P. pastoris</i>
<b>HEPATITIS D VIRUS (HDV)</b>			
HDV	R18420	Ag	<i>E. coli</i>
<b>HEPATITIS E VIRUS (HEV)</b>			
HEV ORF2 and ORF3	R18250	Ag	<i>E. coli</i>
HEV ORF2 (a.a. 403-461)	R8A330	Ag	<i>E. coli</i>
HEV ORF2 (a.a. 633-659)	R8A310	Ag	<i>E. coli</i>
HEV ORF3 (a.a. 92-123)	R8A320	Ag	<i>E. coli</i>

# Sexually Transmitted Diseases (STDs)

Sexually transmitted diseases (STDs) are a major global cause of acute illness, infertility, long-term disability and death, with serious medical and psychological consequences to millions of men, women and infants. Today, over 30 bacterial, viral and parasitic pathogens have been identified that can be transmitted sexually.

STDs are generally acquired by sexual contact specifically through blood, semen, or vaginal and other bodily fluids. Many STDs (chlamydia, gonorrhea, hepatitis, HIV, papillomavirus, Herpes Simplex Virus and syphilis) can also be transmitted non-sexually such as from mother to infant during pregnancy or childbirth, or through blood transfusions, or shared needles. Many STDs have no symptoms, therefore an infection may go unnoticed until complications occur. STDs rank among the top five disease categories for which adults seek health care.

Early and rapid diagnosis of STDs increases the chance to limit effects of the disease. Since many people infected by a STD have few or no symptoms of their infection, they put others (including unborn children from pregnant mothers) at risk.

There are five main methods for the diagnosis of STDs which include (1) culture (2) microscopy (3) detection of antigens or enzymes (4) detection of nucleic acid sequences (NAAT) and (5) detection of antibodies. Of the five approaches, the assays that provide the most rapid diagnosis have gained the most acceptance. As a result, this has largely limited the traditional use of culture and increased development efforts on rapid tests using microscopy (detection of antibodies by rapid serologic methods, and specific detection of cellular components, including antigens, enzymes, or nucleic acid sequences (especially with amplification).

Antibody Pairs		
	CAPTURE	DETECTION
<i>C. trachomatis</i>	C01566M	C01565M
	C65690M R	C01653M
	C01655M R	C01653M
	C01657M R	C65690M
	C01656M R	C65690M
	C65941M R	C65690M
	C11999M	C11998M
Human Immunodeficiency Virus Type I (HIV-1)	C01655M R	C01656M
	C01657M	C01655M
	C01655M R	C65690M
	C01657M	C65499M
	C65499M	C01653M
Human Immunodeficiency (HIV) Chimeric	R01625	R01626
	R01631	R01626
Human Papilloma Virus (HPV) Type 11 E7 Protein	C86166M	C86913M
Human Papilloma Virus (HPV) Type 16 E7 Protein	C86791M	C86789M
	C86791M	C86238M
Human Papilloma Virus (HPV) Type 18 E7 Protein	C86718M	C86238M
	C86867M	C86238M
<i>T. vaginalis</i>	C01571M	C01569M

R - Reversible

# Full product list

Specificity	Catalog #	Type	Host
<b>CHLAMYDIA</b>			
Chlamydia species LPS	C65168M	MAb	Mouse
Chlamydia species LPS	C65815M	MAb	Mouse
Chlamydia species LPS	MAV07-347	MAb	Mouse
<i>C. trachomatis</i>	C66435M	MAb	Mouse
<i>C. trachomatis</i> (EB's all antigens)	B65252G	PAb	Goat
<i>C. trachomatis</i> (EB's all antigens)	B65252R	PAb	Rabbit
<i>C. trachomatis</i> (EB's all antigens)	B65253R	PAb	Rabbit
<i>C. trachomatis</i> (EB's all antigens)	B65256G	PAb	Goat
<i>C. trachomatis</i> (EB's all antigens)	B65256R	PAb	Rabbit
<i>C. trachomatis</i> (MOMP)	B65261G	PAb	Goat
<i>C. trachomatis</i> (MOMP)	B65266G	PAb	Goat
<i>C. trachomatis</i> (MOMP)	C01363M	MAb	Mouse
<i>C. trachomatis</i> (MOMP)	C65166M	MAb	Mouse
<i>C. trachomatis</i> (MOMP)	MAV06-086	MAb	Mouse
<i>C. trachomatis</i> and <i>C. psittaci</i>	C66436M	MAb	Mouse
<i>C. trachomatis</i> LPS	C01565M	MAb	Mouse
<i>C. trachomatis</i> LPS	C01566M	MAb	Mouse
<i>C. trachomatis</i> LGV Type-2 (Strain 434) Elementary Bodies (EB)	R02121	Ag	Mouse L Cells
HCV Core Antigen 1a and 2	C01251M	MAb	Mouse
HCV Core Antigen 1a and 2	C01252M	MAb	Mouse
HCV Core Antigen Genotypes 1a and 2	C01253M	MAb	Mouse
HCV Core Antigen (a.a. 2-120) Genotype 1	R18140	Ag	<i>E. coli</i>
<b>HUMAN IMMUNODEFICIENCY VIRUS (HIV)</b>			
HIV-1 p24	R01785	Ag	Insect
HIV Chimeric gp120 and gp41	R01625	Ag	<i>E. coli</i>
HIV Chimeric gp120 and gp41	R01626	Ag	<i>E. coli</i>
HIV Chimeric gp120 and gp41	R01631	Ag	<i>E. coli</i>
HIV Type 1 gp41 Env.	R65908	Ag	<i>E. coli</i>
HIV Type 1 gp41 Env. (a.a. 466-753)	R8A113	Ag	<i>E. coli</i>
HIV Type 1 gp41	R01633	Ag	<i>E. coli</i>
HIV Type 1 gp41 Type O	R01454	Ag	<i>E. coli</i>
HIV Type 1 gp120	B65961B	PAb	Goat
HIV Type 1 gp120	B65961G	PAb	Goat
HIV Type 1 gp120	B65961P	PAb	Goat
HIV Type 1 (purified virions)	B65873G	PAb	Goat
HIV Type 1 (purified virions)	B65875G	PAb	Goat
HIV Type 1 gp41	B65971G	PAb	Goat
HIV Type 1 gp120 + most of gp41, C-Terminal	R01593	Ag	<i>E. coli</i>
HIV Type 1 gp120 + most of gp41, C-Terminal	R18550	Ag	<i>E. coli</i>
HIV Type 1 gp120 (v3 loop region)	R01276	Ag	<i>E. coli</i>
HIV Type 1 gp160 (a.a. 283-674)	R01532	Ag	<i>E. coli</i>
HIV Type 1 gp41	C18812M	MAb	Mouse
HIV Type 1 gp41	C65911M	MAb	Mouse
HIV Type 1 gp41	C8A015M	MAb	Mouse
HIV Type 1 p17	C8A014M	MAb	Mouse
HIV Type 1 p24	C01653M	MAb	Mouse
HIV Type 1 p24	C01655M	MAb	Mouse
HIV Type 1 p24	C01656M	MAb	Mouse
HIV Type 1 p24	C01657M	MAb	Mouse
HIV Type 1 p24	C11998M	MAb	Mouse
HIV Type 1 p24	C11999M	MAb	Mouse



# Sexually Transmitted Diseases (STDs)

## Full product list continued

Specificity	Catalog #	Type	Host
HIV Type 1 p24	C65489M	MAb	Mouse
HIV Type 1 p24	C65499M	MAb	Mouse
HIV Type 1 p24	C65690M	MAb	Mouse
HIV Type 1 p24	C65941F	MAb	Mouse
HIV Type 1 p24	C65941M	MAb	Mouse
HIV Type 1 p24	B65951B	PAb	Goat
HIV Type 1 p24	B65951F	PAb	Goat
HIV Type 1 p24	B65951G	PAb	Goat
HIV Type 1 p24	B65951P	PAb	Goat
HIV Type 1 p24	R01627	Ag	<i>E. coli</i>
HIV Type 1 p24	VTI340	Ag	<i>P. pastoris</i>
HIV Type 1 gag p24 (a.a. 77-436) Strain IIIB	R8A111	Ag	<i>E. coli</i>
HIV Type 1 Integrase p31 (a.a. 9-289)	R01488	Ag	<i>E. coli</i>
HIV Type 1 nef (a.a. 3 Type 190)	R8A112	Ag	<i>E. coli</i>
HIV Type 1&2 gp41/O group gp41/gp36	R01547	Ag	<i>E. coli</i>
HIV Type 1&2 p24	C01576M	MAb	Mouse
HIV Type 1&2 p24	C01577M	MAb	Mouse
HIV Type 2 gp36	C18386M	MAb	Mouse
HIV Type 2 gp36	C8A401H	MAb	Mouse
HIV Type 2 gp36 Env.	R18410	Ag	<i>E. coli</i>
HIV Type 2 gp36 Env.	R65911	Ag	<i>E. coli</i>
HIV Type 2 gp36	R18220	Ag	Synthetic
HIV Type 2 gp36	R01634	Ag	<i>E. coli</i>
HIV Type 2 gp36	VTI360	Ag	<i>P. pastoris</i>
HIV Type 2 Env. (a.a. 390-702)	R8A114	Ag	<i>E. coli</i>
<b>HUMAN PAPILLOMA VIRUS (HPV)</b>			
HPV Type 11 E7	C86166M	MAb	Mouse
HPV Type 11 E7	C86913M	MAb	Mouse
HPV Type 16 E2 (a.a. 18-41)	MAV56-271	MAb	Mouse
HPV Type 16 E2 (a.a. 2-17)	MAV56-261	MAb	Mouse
HPV Type 16 E7	C86013M	MAb	Mouse
HPV Type 16 E7	C86789M	MAb	Mouse
HPV Type 16 E7	C86791M	MAb	Mouse
HPV Type 16 E7	MAV56-013	MAb	Mouse
HPV Type 16 L1	MAV56-981	MAb	Mouse
HPV Type 16 L1	MAV56-981T	MAb	Mouse
HPV Type 16 L1	R01428	Ag	<i>Hansenula polymorpha</i>
HPV Type 18 L1	R01429	Ag	<i>Hansenula polymorpha</i>
HPV Type 18 Capsid L1	C01702M	MAb	Mouse
HPV Type 18 E6	MAV56-267	MAb	Mouse
HPV Type 18 E6	MAV56-965	MAb	Mouse
HPV Type 18 E7	C86238M	MAb	Mouse
HPV Type 18 E7	C86718M	MAb	Mouse
HPV Type 18 E7	C86867M	MAb	Mouse

Specificity	Catalog #	Type	Host
<b>HERPES SIMPLEX VIRUS (HSV)</b>			
HSV Type 1	B65131G	PAb	Goat
HSV Type 1	B65133G	PAb	Goat
HSV Type 1	B65134G	PAb	Goat
HSV Type 1	7305	Ag	Native
HSV Type 1, Concentrate	7309	Ag	Native
HSV Type 1	C01290M	MAb	Mouse
HSV Type 1	C01291M	MAb	Mouse
HSV Type 1 Glycoprotein C	C65141M	MAb	Mouse
HSV Type 1 Glycoprotein D	C8A020M	MAb	Mouse
HSV Type 1 Glycoprotein D	VTI510	Ag	<i>P. pastoris</i>
HSV Type 1 Glycoprotein D	R18430	Ag	<i>E. coli</i>
HSV Type 1 Glycoprotein G	VTI520	Ag	<i>S. cerevisiae</i>
HSV Type 1 Glycoprotein E	C65120M	MAb	Mouse
HSV Type 1 Glycoprotein G-1	C66150M	MAb	Mouse
HSV Type 1 Nucleocapsid Protein (155kDa)	C05014MA	MAb	Mouse
HSV Type 1&2 Glycoprotein D	C01294M	MAb	Mouse
HSV Type 1&2 Glycoprotein D	C65912M	MAb	Mouse
HSV Type 1&2	B65107R	PAb	Rabbit
HSV Type 1&2	B65205R	PAb	Rabbit
HSV Type 2	B65121S	PAb	Sheep
HSV Type 2	B65123S	PAb	Sheep
HSV Type 2	B65124S	PAb	Sheep
HSV Type 2	7705	Ag	Native
HSV Type 2, Concentrate	7749	Ag	Native
HSV Type 2	C01292M	MAb	Mouse
HSV Type 2 Glycoprotein D	VTI540	Ag	<i>P. pastoris</i>
HSV Type 2 Glycoprotein D	R18530	Ag	<i>E. coli</i>
HSV Type 2 Glycoprotein D	C86302M	MAb	Mouse
HSV Type 2 Glycoprotein D	C01859M	MAb	Mouse
HSV Type 2 Glycoprotein E	C65901M	MAb	Mouse
HSV Type 2 Glycoprotein G	C65116M	MAb	Mouse
HSV Type 2 Glycoprotein G	EV9287	Ag	Native
HSV Type 2 Glycoprotein G	R01594	Ag	Synthetic
HSV Type 2 Glycoprotein G	R18350	Ag	<i>E. coli</i>
HSV Type 2 Glycoprotein G	VTI530	Ag	<i>S. cerevisiae</i>
HSV Type 2 Glycoprotein G-2	R01673	Ag	<i>E. coli</i>
HSV Type 2 Glycoprotein G-2	C66501M	MAb	Mouse
HSV Type 2 Glycoprotein G-2	C66516M	MAb	Mouse
<b>HUMAN T-CELL LYMPHOTROPIC VIRUS (HTLV)</b>			
HTLV Type 1 Env. C-Terminal of gp46 and most of p21E	R18142	Ag	<i>E. coli</i>
HTLV Type 1 gp21 (a.a. 351-404)	R01433	Ag	<i>E. coli</i>
HTLV Type 1 gp46-gp21 (a.a. 165-440)	R01434	Ag	<i>E. coli</i>
HTLV Type 1 p24	R18152	Ag	<i>E. coli</i>
<b>MYCOPLASMA</b>			
<i>M. genitalium</i>	C01665M	MAb	Mouse
<i>M. genitalium</i>	C01666M	MAb	Mouse
<i>M. genitalium</i>	C01667M	MAb	Mouse
<i>M. genitalium</i>	C01668M	MAb	Mouse



# Sexually Transmitted Diseases (STDs)

## Full product list continued

Specificity	Catalog #	Type	Host
<b>NEISSERIA</b>			
<i>N. gonorrhoeae</i>	C01818M	MAb	Mouse
<i>N. gonorrhoeae</i>	C01819M	MAb	Mouse
<i>N. gonorrhoeae</i>	C01820M	MAb	Mouse
<i>N. gonorrhoeae</i> (all antigens)	B65111B	PAb	Rabbit
<i>N. gonorrhoeae</i> (all antigens)	B65111P	PAb	Rabbit
<i>N. gonorrhoeae</i> (all antigens)	B65111R	PAb	Rabbit
<i>N. meningitidis</i> (all antigens)	B65612R	PAb	Rabbit
<b>TREPONEMA PALLIDUM (SYPHILIS)</b>			
<i>T. pallidum</i>	B65210B	PAb	Rabbit
<i>T. pallidum</i>	B65210F	PAb	Rabbit
<i>T. pallidum</i>	B65210P	PAb	Rabbit
<i>T. pallidum</i>	B65210R	PAb	Rabbit
<i>T. pallidum</i>	C65811M	MAb	Mouse
<i>T. pallidum</i> and <i>T. reiteri</i>	C01706M	MAb	Mouse
<i>T. pallidum</i> p15	R01531	Ag	<i>E. coli</i>
<i>T. pallidum</i> p15	R01582	Ag	<i>E. coli</i>
<i>T. pallidum</i> p15	R8A101	Ag	<i>E. coli</i>
<i>T. pallidum</i> p15/p17/p47	R01681	Ag	<i>E. coli</i>
<i>T. pallidum</i> p15/p17/p47	R01682	Ag	Mouse
<i>T. pallidum</i> p17	C01705M	MAb	Mouse
<i>T. pallidum</i> p17	C01707M	MAb	Mouse
<i>T. pallidum</i> p17	R01497	Ag	<i>E. coli</i>
<i>T. pallidum</i> p17	R01528	Ag	<i>E. coli</i>
<i>T. pallidum</i> p17	R01583	Ag	<i>E. coli</i>
<i>T. pallidum</i> p17	R8A201	Ag	<i>E. coli</i>
<i>T. pallidum</i> p17/p15/p44.5/p47	R01705	Ag	<i>E. coli</i>
<i>T. pallidum</i> p41	R01529	Ag	<i>E. coli</i>
<i>T. pallidum</i> p41	R18044	Ag	<i>E. coli</i>
<i>T. pallidum</i> p41	R18830	Ag	<i>E. coli</i>
<i>T. pallidum</i> p47, mosaic of immunodominant regions	R01568	Ag	<i>E. coli</i>
<i>T. pallidum</i> p47	R01606	Ag	<i>E. coli</i>
<i>T. pallidum</i> p47	R8A403	Ag	<i>E. coli</i>
<i>T. pallidum</i> p47	C01261M	MAb	Mouse
<i>T. pallidum</i> p47	C01263M	MAb	Mouse
<i>T. pallidum</i> , Treponemal Membrane Protein A Full Length	R01632	Ag	<i>E. coli</i>
<i>T. pallidum</i> , Treponemal Membrane Protein A	R01530	Ag	<i>E. coli</i>
<i>T. pallidum</i> , Treponemal Membrane Protein A	R01665	Ag	<i>E. coli</i>
<i>T. pallidum</i> , Treponemal Membrane Protein A	R8A404	Ag	<i>E. coli</i>
<b>TRICHOMONAS VAGINALIS</b>			
<i>T. vaginalis</i>	C01567M	MAb	Mouse
<i>T. vaginalis</i>	C01568M	MAb	Mouse
<i>T. vaginalis</i>	C01569M	MAb	Mouse
<i>T. vaginalis</i>	C01571M	MAb	Mouse
<i>T. vaginalis</i> , p65 adhesive	C65675M	MAb	Mouse

# Respiratory Infections

The respiratory tract is a complex arrangement of organs and tissues that are prone to developing a range of infections. A wide number of organisms can infect the respiratory tract including viruses, bacteria, fungi and parasites, and over a dozen pathogens are commonly encountered in a clinical setting. Infections are generally classified into two types, an upper respiratory tract infection (UTI) or lower respiratory tract infection (LRI). LRIs are generally more serious than UTIs, accounting for the majority of infectious disease-related deaths worldwide.

Young children, the elderly, and patients with compromised cardiac, pulmonary, or immune systems are at greatest risk for serious disease by respiratory pathogens. In children, 15% - 25% of pneumonias are caused by RSV, 15% by parainfluenza virus, and 7% - 9% by adenovirus. RSV infection is the most frequent cause of hospitalization in children under 5 years of age. In the elderly, respiratory viral infections cause up to 26% of hospital admissions for community-acquired pneumonia.

Early detection is critically important both to improve individual patient outcomes and to prevent the spread of respiratory diseases. It has been suggested that rapid testing for respiratory viruses, if established as the standard of care, could substantially lower health care costs and potentially save lives. Due to a deeper understanding of the unique immunodominant regions in the infectious organisms, significant improvements in sensitivity and specificity have been achieved in commercial enzyme based immunoassays (EIAs). These tests offer several advantages over other assay types such as molecular testing, since they are easier to administer, and provide a quicker turn-around time. Numerous studies have demonstrated the improved sensitivity and specificity, broader pathogen coverage, and shortened turn-around time for these tests as compared to standard methods.



# Respiratory Infections

## Antibody Pairs



	CAPTURE	DETECTION	CAPTURE	DETECTION
Adenovirus Hexon	C86804M	C86006M	C01742M	C01747M
	C86007M	C86006M	C01743M	C01897M
	C65431M	C01554M	C01744M R	C01747M
	C65431M	C65604M	C01744M	C01897M
	C65431M	C01256M	C01745M	C01743M
	C01727M	C01728M	C01745M	C01747M
	C01781M	C01780M	C01745M	C01748M
	C01781M	C01832M	C01746M	C01747M
	C01785M	C01828M	C01746M	C01897M
	C01783M	C01784M	C01747M R	C01897M
Influenza A Virus Hemagglutinin H1	C01959M	C01960M	C01747M	C01744M
	C01953M	C01953M	C01748M	C01897M
	C01281M	C01282M	C01749M	C01748M
	C01309M	C01310M	C01749M	C01897M
Influenza A Virus (Nucleoprotein)	C01309M	C86240M	C01900M R	C01747M
	C65375M	C65365M	C01900M	C01748M
	C65375M	C65385M	C65016M	C65131M
	C65331M	C65375M	C65081M	C65131M
	C01321M	C01323M	C65107M	C65131M
	C01736M R	C01737M	C01326M	C01327M
	C01736M	C01731M	C01326M	C01329M
	C01737M	C01760M	C01328M	C01329M
	C01731M R	C01760M	C86135M	C01685M
	C01760M	C01737M	C01590M	C01591M
<i>L. pneumophila</i> LPS	C01760M	C01738M	C01951M	C01952M
	C01760M	C01734M	C01398M	C01400M
	C01732M	C01731M	C01788M	C01790M
	C01732M R	C01737M	C01788M	C01791M
	C01733M	C01736M	C01789M	C01792M
	C01733M R	C01734M	C01787M	C01790M
	C01732M	C01731M	Parainfluenza 1	C65492M R C65738M
			Parainfluenza 3	C65492M C65467M
M. tuberculosis CFP10			Parainfluenza 3	C65467M C65329M
			Respiratory Syncytial Virus (RSV) (Immunoassays)	C65064M C65065M
				C65063M C65065M
				C01769M C01773M

R - Reversible

Antibody Pairs continued			
	CAPTURE	DETECTION	
Respiratory Syncytial Virus (RSV) Fusion Protein	C01775M	C01773M	
	C01770M	C01776M	
	C01769M	C01773M	
	C01770M	C01773M	
	C01774M	C01773M	
	C01775M	C01774M	
SARS-CoV-2 (Nucleoprotein)	9548	9547	
	9548	9549	
SARS-CoV-2 S1 (Trimeric)	9550	9551	
	9550	9551 & 9565	
	B65150G	R C01756R	
Streptococcus Group A	C01756R	C01756R	
	C01756R	R B65510R	
	C01759R	C01758R	
<i>S. pneumoniae</i>			

## Full product list

Specificity	Catalog #	Type	Host
<b>ADENO-ASSOCIATED VIRUS (AAV)</b>			
AAV Intact Particles	C44206M	MAb	Mouse
AAV (VP1,VP2,VP3)	C44180M	MAb	Mouse
<b>ADENOVIRUS</b>			
Adenovirus	B65140F	PAb	Goat
Adenovirus	B65140G	PAb	Goat
Adenovirus	C65433F	MAb	Mouse
Adenovirus	C66437M	MAb	Mouse
Adenovirus	C66439M	MAb	Mouse
Adenovirus	C66440M	MAb	Mouse
Adenovirus 40 & 41	C66431M	MAb	Mouse
Adenovirus Hexon	C01256M	MAb	Mouse
Adenovirus Hexon	C01296M	MAb	Mouse
Adenovirus Hexon	C01554M	MAb	Mouse
Adenovirus Hexon	C01595M	MAb	Mouse
Adenovirus Hexon	C01612M	MAb	Mouse
Adenovirus Hexon	C01711M	MAb	Mouse
Adenovirus Hexon	C01727M	MAb	Mouse
Adenovirus Hexon	C01728M	MAb	Mouse
Adenovirus Hexon	C01778M	MAb	Mouse
Adenovirus Hexon	C01779M	MAb	Mouse
Adenovirus Hexon	C01780M	MAb	Mouse
Adenovirus Hexon	C01781M	MAb	Mouse
Adenovirus Hexon	C01782M	MAb	Mouse
Adenovirus Hexon	C01783M	MAb	Mouse
Adenovirus Hexon	C01784M	MAb	Mouse
Adenovirus Hexon	C01785M	MAb	Mouse
Adenovirus Hexon	C01828M	MAb	Mouse
Adenovirus Hexon	C01830M	MAb	Mouse
Adenovirus Hexon	C01831M	MAb	Mouse
Adenovirus Hexon	C01832M	MAb	Mouse
Adenovirus Hexon	C01849M	MAb	Mouse
Adenovirus Hexon	C01953M	MAb	Mouse
Adenovirus Hexon	C01959M	MAb	Mouse



# Respiratory Infections

## Full product list continued

Specificity	Catalog #	Type	Host
Adenovirus Hexon	C01960M	MAb	Mouse
Adenovirus Hexon	C11994M	MAb	Mouse
Adenovirus Hexon	C65136M	MAb	Mouse
Adenovirus Hexon	C65431M	MAb	Mouse
Adenovirus Hexon	C65604M	MAb	Mouse
Adenovirus Hexon	C86006M	MAb	Mouse
Adenovirus Hexon	C86007M	MAb	Mouse
Adenovirus Hexon	C86804M	MAb	Mouse
Adenovirus Type 2 Hexon (Strain Adenoid 6)	R14800	Ag	Native
Adenovirus Type 6 (Strain Adenoid 6)	R02721	Ag	Native
Adenovirus Type 6 (Strain Tonsil 99)	R86310	Ag	Hela Cells
<b>ANGIOTENSIN CONVERTING ENZYME 2 (ACE2)</b>			
ACE2 (SARS Receptor) C-Terminal	B88270R	PAb	Rabbit
<b>BORDETELLA PERTUSSIS</b>			
<i>B. pertussis</i>	C65500M	MAb	Mouse
<b>CHLAMYDIA PNEUMONIAE</b>			
<i>C. pneumoniae</i>	C01369M	MAb	Mouse
<i>C. pneumoniae</i> (TWAR)	C01841M	MAb	Mouse
<i>C. pneumoniae</i> (TWAR)	C01842M	MAb	Mouse
<i>C. pneumoniae</i> (TWAR)	C01843M	MAb	Mouse
<i>C. pneumoniae</i> (TWAR)	C01844M	MAb	Mouse
<i>C. pneumoniae</i> (TWAR)	R02620	Ag	HL Cells
<b>INFLUENZA A</b>			
Influenza A (matrix protein)	B87020M	MAb	Mouse
Influenza A (matrix protein)	C01298M	MAb	Mouse
Influenza A (NP)	C01244M	MAb	Mouse
Influenza A (NP)	C01321M	MAb	Mouse
Influenza A (NP)	C01323M	MAb	Mouse
Influenza A (NP)	C01324M	MAb	Mouse
Influenza A (NP)	C01325M	MAb	Mouse
Influenza A (NP)	C01731M	MAb	Mouse
Influenza A (NP)	C01732M	MAb	Mouse
Influenza A (NP)	C01733M	MAb	Mouse
Influenza A (NP)	C01734M	MAb	Mouse
Influenza A (NP)	C01735M	MAb	Mouse
Influenza A (NP)	C01736M	MAb	Mouse
Influenza A (NP)	C01737M	MAb	Mouse
Influenza A (NP)	C01738M	MAb	Mouse
Influenza A (NP)	C01739M	MAb	Mouse
Influenza A (NP)	C01740M	MAb	Mouse
Influenza A (NP)	C01760M	MAb	Mouse
Influenza A (NP)	C65331M	MAb	Mouse
Influenza A (NP)	C65341F	MAb	Mouse
Influenza A (NP)	C65341M	MAb	Mouse
Influenza A (NP)	C65365M	MAb	Mouse
Influenza A (NP)	C65375M	MAb	Mouse
Influenza A (NP)	C65385M	MAb	Mouse
Influenza A (NP)	C86305M	MAb	Mouse
Influenza A (NP)	C87050M	MAb	Mouse

Specificity	Catalog #	Type	Host
Influenza A H1N1 (Virions)	B65241G	PAb	Goat
Influenza A H1N1 (Virions)	B65242G	PAb	Goat
Influenza A H1N1 (Virions)	B65243G	PAb	Goat
Influenza A (A/New Caledonia/20/99) (H1N1)	R01698	Ag	Chicken Eggs
Influenza A H3N2	R01623	Ag	Chicken Eggs
Influenza A H3N2 (Virions)	B65311G	PAb	Goat
Influenza A H3N2 (Virions)	B65313G	PAb	Goat
Influenza A H3N2 (Virions)	B65314G	PAb	Goat
Influenza A H3N2 (Virions)	B65317G	PAb	Goat
Influenza A (matrix protein M1)	B65143G	PAb	Goat
Influenza A (matrix protein M1)	B65246G	PAb	Goat
Influenza A (matrix protein M1)	B65247G	PAb	Goat
Influenza A (matrix protein M1)	B65248G	PAb	Goat
Influenza A Hemagglutinin H1 (H1N1 Virions)	B65141G	PAb	Goat
Influenza A Hemagglutinin H1 (Swine H1N1) (A/California/14/2009)	B01419R	PAb	Rabbit
Influenza A Hemagglutinin H1	C01278M	MAb	Mouse
Influenza A Hemagglutinin H1	C01281M	MAb	Mouse
Influenza A Hemagglutinin H1	C01282M	MAb	Mouse
Influenza A Hemagglutinin H1	C01283M	MAb	Mouse
Influenza A Hemagglutinin H1	C86304M	MAb	Mouse
Influenza A Hemagglutinin H3	C01318M	MAb	Mouse
Influenza A Hemagglutinin H3	C01319M	MAb	Mouse
Influenza A Hemagglutinin H5 (Avian H5N1)	C86490P	MAb	Mouse
Influenza A Hemagglutinin H5	C01691M	MAb	Mouse
Influenza A Hemagglutinin H5 (Avian H5N1)	C01309M	MAb	Mouse
Influenza A Hemagglutinin H5 (Avian H5N1)	C01310M	MAb	Mouse
Influenza A Hemagglutinin H5 (Avian H5N1)	C01312M	MAb	Mouse
Influenza A Hemagglutinin H5 (Avian H5N1)	C86240M	MAb	Mouse
Influenza A Hemagglutinin H5 (Avian H5N1)	C86270M	MAb	Mouse
Influenza A Hemagglutinin H5 (Avian H5N1)	C86490M	MAb	Mouse
Influenza A Hemagglutinin H5 (Avian H5N1)	C88200M	MAb	Mouse
Influenza A Hemagglutinin H5 (Avian H5N1)	C88205M	MAb	Mouse
Influenza A Hemagglutinin H7	C01610M	MAb	Mouse
Influenza A Hemagglutinin H7	C01611M	MAb	Mouse
Influenza A Neuraminidase N1	B01426R	PAb	Rabbit
Influenza A Strain A/Beijing/262/95 (H1N1)	R86280	Ag	Chicken Eggs
Influenza A Strain A/Brisbane/10/07 (H3N2)	R01249	Ag	Chicken Eggs
Influenza A Strain A/New Caledonia/20/99 IVR 116 (H1N1)	R86380	Ag	Chicken Eggs
Influenza A Strain A/Panama/2007/99 (H3N2)	R86288	Ag	Chicken Eggs
Influenza A Strain A/Solomon Islands/03/06 (H1N1)	R01245	Ag	Chicken Eggs
Influenza A Strain A/Wisconsin/67/05 (H3N2)	R01250	Ag	Chicken Eggs



# Respiratory Infections

## Full product list continued

Specificity	Catalog #	Type	Host
<b>INFLUENZA B</b>			
Influenza B (matrix protein M1)	C01345M	MAb	Mouse
Influenza B (NP)	C01302M	MAb	Mouse
Influenza B (NP)	C01326M	MAb	Mouse
Influenza B (NP)	C01327M	MAb	Mouse
Influenza B (NP)	C01328M	MAb	Mouse
Influenza B (NP)	C01329M	MAb	Mouse
Influenza B (NP)	C01340M	MAb	Mouse
Influenza B (NP)	C01341M	MAb	Mouse
Influenza B (NP)	C01342M	MAb	Mouse
Influenza B (NP)	C01343M	MAb	Mouse
Influenza B (NP)	C01684M	MAb	Ascites
Influenza B (NP)	C01741M	MAb	Mouse
Influenza B (NP)	C01742M	MAb	Mouse
Influenza B (NP)	C01743M	MAb	Mouse
Influenza B (NP)	C01744M	MAb	Mouse
Influenza B (NP)	C01745M	MAb	Mouse
Influenza B (NP)	C01746M	MAb	Mouse
Influenza B (NP)	C01747M	MAb	Mouse
Influenza B (NP)	C01748M	MAb	Mouse
Influenza B (NP)	C01749M	MAb	Mouse
Influenza B (NP)	C01897M	MAb	Mouse
Influenza B (NP)	C01900M	MAb	Mouse
Influenza B (NP)	C65016M	MAb	Mouse
Influenza B (NP)	C65081M	MAb	Mouse
Influenza B (NP)	C65107M	MAb	Mouse
Influenza B (NP)	C65131M	MAb	Mouse
Influenza B (NP)	C87071M	MAb	Mouse
Influenza B Hemagglutinin HA2	C01275M	MAb	Mouse
Influenza B Hemagglutinin HA2	C01276M	MAb	Mouse
Influenza B (Virions)	B65342G	PAb	Goat
Influenza B (Virions)	B65344G	PAb	Goat
Influenza B Strain B/Florida/04/06	R01246	Ag	Chicken Eggs
Influenza B Strain B/Florida/07/04	R01247	Ag	Chicken Eggs
Influenza B Strain B/Hong Kong 5/72	R02310	Ag	MDCK Cells
Influenza B Strain B/Malaysia/2506/04	R01248	Ag	Chicken Eggs
Influenza B Strain B/Tokio/53/99	R86250	Ag	Chicken Eggs
Influenza B Strain B/Victoria/504/00	R86350	Ag	Chicken Eggs
<b>LEGIONELLA PNEUMOPHILA</b>			
<i>L. pneumophila</i>	A01715N	Ag	Native
<i>L. pneumophila</i>	B65051G	PAb	Rabbit
<i>L. pneumophila</i>	B65053F	PAb	Rabbit
<i>L. pneumophila</i>	B65054R	PAb	Rabbit
<i>L. pneumophila</i>	B65057B	PAb	Rabbit
<i>L. pneumophila</i> LPS	C01590M	MAb	Mouse
<i>L. pneumophila</i> LPS	C01591M	MAb	Mouse
<i>L. pneumophila</i> LPS	C01951M	MAb	Mouse
<i>L. pneumophila</i> LPS	C01952M	MAb	Mouse

Specificity	Catalog #	Type	Host
<i>L. pneumophila</i> LPS Philadelphia 1 strain	C01685M	MAb	Mouse
<i>L. pneumophila</i> LPS Philadelphia 1 strain	C86135B	MAb	Mouse
<i>L. pneumophila</i> LPS Philadelphia 1 strain	C86135M	MAb	Mouse
<i>L. pneumophila</i> Serogroup 1	C01757R	MAb	Rabbit
<i>L. pneumophila</i> Serovars 1-7	R14610	Ag	Culture
<b>MYCOBACTERIUM</b>			
<i>M. tuberculosis</i>	B65601B	PAb	Rabbit
<i>M. tuberculosis</i>	B65601C	PAb	Rabbit
<i>M. tuberculosis</i>	B65601F	PAb	Rabbit
<i>M. tuberculosis</i>	B65601R	PAb	Rabbit
<i>M. tuberculosis</i> CFP10 (10kDa culture filtrate protein)	C01398M	MAb	Mouse
<i>M. tuberculosis</i> CFP10 (10kDa culture filtrate protein)	C01400M	MAb	Mouse
<i>M. tuberculosis</i> ESAT6 (6kDa early secretory antigen of T cells)	C01401M	MAb	Mouse
<i>M. tuberculosis</i> ESAT6 (6kDa early secretory antigen of T cells)	C01402M	MAb	Mouse
<i>M. tuberculosis</i> , Hsp65	C65577M	MAb	Mouse
<i>M. tuberculosis</i> , Hsp65	C65578M	MAb	Mouse
<i>M. tuberculosis</i> , 16kDa	C65557M	MAb	Mouse
<i>M. tuberculosis</i> , 16kDa	C65567M	MAb	Mouse
<i>M. tuberculosis</i> , 16kDa	C86360M	MAb	Mouse
<i>M. tuberculosis</i> , 38kDa	C86820M	MAb	Mouse
<i>M. tuberculosis</i> , 38kDa	R01456	Ag	<i>E. coli</i>
<i>M. tuberculosis</i> CFP10	R01590	Ag	<i>E. coli</i>
<i>M. tuberculosis</i> CFP10: ESAT6 Chimera	R01668	Ag	<i>E. coli</i>
<b>MYCOPLASMA PNEUMONIAE</b>			
<i>M. pneumoniae</i>	C01517M	MAb	Mouse
<i>M. pneumoniae</i>	C01518M	MAb	Mouse
<i>M. pneumoniae</i>	C01519M	MAb	Mouse
<i>M. pneumoniae</i>	C01520M	MAb	Mouse
<i>M. pneumoniae</i>	C01521M	MAb	Mouse
<i>M. pneumoniae</i> P1 adhesin	C01787M	MAb	Mouse
<i>M. pneumoniae</i> P1	C01788M	MAb	Mouse
<i>M. pneumoniae</i> P2	C01789M	MAb	Mouse
<i>M. pneumoniae</i> P3	C01790M	MAb	Mouse
<i>M. pneumoniae</i> P4	C01791M	MAb	Mouse
<i>M. pneumoniae</i> P5	C01792M	MAb	Mouse
<i>M. pneumoniae</i>	B65511R	PAb	Rabbit
<i>M. pneumoniae</i> (Strain FH)	R02102	Ag	<i>M. pneumoniae</i> culture
<i>M. pneumoniae</i> , High Purity (Strain FH)	R01701	Ag	Culture
<b>NEISSERIA MENINGITIDIS</b>			
<i>N. meningitidis</i>	B65612R	PAb	Rabbit
<b>PARAINFLUENZA</b>			
Parainfluenza 1	B65121G	PAb	Goat
Parainfluenza 2 & 3	B65130G	PAb	Goat
Parainfluenza 2 & 4	B65233G	PAb	Goat
Parainfluenza 1	C65122M	MAb	Mouse
Parainfluenza 1 & 3, Fusion Protein	C65738M	MAb	Mouse
Parainfluenza 1, Fusion Protein	C01306M	MAb	Mouse

# Respiratory Infections

## Full product list continued

Specificity	Catalog #	Type	Host
Parainfluenza 1, Fusion Protein	C65492M	MAb	Mouse
Parainfluenza 2	C65241M	MAb	Mouse
Parainfluenza 2, Hemagglutinin	C01307M	MAb	Mouse
Parainfluenza 3, Hemagglutinin	C01308M	MAb	Mouse
Parainfluenza 3, Hemagglutinin	C65329M	MAb	Mouse
Parainfluenza 3, Hemagglutinin	C65467M	MAb	Mouse
Parainfluenza 1, Strain Sendai	R86876	Ag	Chicken Eggs
Parainfluenza 1, Strain VP1	R02802	Ag	Native
Parainfluenza 2, Strain GREER	R02902	Ag	Native
Parainfluenza 3, Strain C243	R02002	Ag	Native
Parainfluenza 3, Strain III V2932	R86360	Ag	Native
<b>PNEUMOCYSTIS CARINII</b>			
<i>P. carinii</i> ( <i>P. jiroveci</i> ) 50kDa	C01583M	MAb	Mouse
<i>P. carinii</i> ( <i>P. jiroveci</i> ) 65/67kDa	C01581M	MAb	Mouse
<b>RESPIRATORY SYNCYTIAL VIRUS (RSV)</b>			
RSV	B65820G	PAb	Goat
RSV	B65830G	PAb	Goat
RSV	B65840G	PAb	Goat
RSV	B65860G	PAb	Goat
RSV Fusion Protein	C01769M	MAb	Mouse
RSV Fusion Protein	C01770M	MAb	Mouse
RSV Fusion Protein	C01771M	MAb	Mouse
RSV Fusion Protein	C01772M	MAb	Mouse
RSV Fusion Protein	C01773M	MAb	Mouse
RSV Fusion Protein	C01774M	MAb	Mouse
RSV Fusion Protein	C01775M	MAb	Mouse
RSV Fusion Protein	C01776M	MAb	Mouse
RSV Fusion Protein	C01777M	MAb	Mouse
RSV Fusion Protein	C65063M	MAb	Mouse
RSV Fusion Protein	C65064M	MAb	Mouse
RSV Fusion Protein	C65065M	MAb	Mouse
RSV Fusion Protein	C65816M	MAb	Mouse
RSV Fusion Protein	C87610M	MAb	Mouse
RSV Fusion Protein (46kDa & 22kDa S-S linked glycoprotein)	C01286M	MAb	Mouse
RSV Fusion Protein, Type A and B Strains	C01626M	MAb	Mouse
RSV Nucleoprotein	C01287M	MAb	Mouse
RSV Nucleoprotein	C65067F	MAb	Mouse
RSV (NP)	C65067M	MAb	Mouse
RSV (NP)	C66432M	MAb	Mouse
RSV (NP)	C87320M	MAb	Mouse
RSV Long Strain	C01694M	MAb	Mouse
RSV Long Strain	C86001M	MAb	Mouse
RSV Long Strain	R29124	Ag	Native
RSV Long Strain	R86900	Ag	Native
RSV Antigen (Long Strain) >10% Viral Protein	8175	Ag	FRhK Cells
<b>RHINOVIRUS OUTER CAPSID PROTEIN 3</b>			
Rhinovirus outer capsid protein 3 (VP3)	C01696M	MAb	Mouse
Rhinovirus outer capsid protein 3 (VP3)	C01697M	MAb	Mouse
Rhinovirus outer capsid protein 3 (VP3)	C01698M	MAb	Mouse

Specificity	Catalog #	Type	Host
<b>SARS-ASSOCIATED CORONAVIRUS (SARS-COV)</b>			
SARS-CoV Spike protein (N-Terminal)	B88139R	PAb	Rabbit
SARS-CoV Spike protein (C-Terminal)	B88502R	PAb	Rabbit
SARS CoV-2 Nucleocapsid	9547	MAb	Mouse
SARS CoV-2 Nucleocapsid	9548	MAb	Mouse
SARS CoV-2 Nucleocapsid	9549	MAb	Cell Culture
SARS-CoV-2 Trimeric Spike Protein, Linear Epitope	9550	MAb	Cell Culture
SARS-CoV-2 Trimeric Spike Protein, Linear Epitope	9551	MAb	Cell Culture
SARS-CoV-2 Spike S1 Receptor Binding domain (RBD) Protein (His-Tag)	9552	Ag	HEK Cells
SARS-CoV-2 Nucleocapsid, rec.(With DYKDDDDK Tag)	9554	Ag	HEK Cells
SARS-CoV-2 Spike Protein, S1 subunit (His-Tag), rec.	9556	Ag	Insect Cells
SARS-CoV-2 Spike S1 NTD protein (His-Tag), Recombinant	9557	Ag	Insect Cells
SARS-CoV-2 Spike S1 Receptor Binding domain (RBD) Protein (His-Tag)	9558	Ag	Insect Cells
SARS-CoV-2 Spike protein, S2 subunit (His-Tag), rec.	9559	Ag	Insect Cells
SARS-CoV-2 Nucleocapsid (His-Tag), Recombinant	9560	Ag	Insect Cells
SARS-CoV-2 Nucleocapsid, His-Tag, rec	9561	Ag	<i>E. coli</i>
SARS-CoV-2 Nucleocapsid, His-Tag, rec	9562	Ag	<i>E. coli</i>
SARS-CoV-2 Spike Protein, S1 Trimer (His Tag), Rec.	9566	Ag	Insect Cells
<b>STREPTOCOCCUS GROUP A</b>			
Streptococcus Group A	A01717N	Ag	Native
Streptococcus Group A	C01756R	MAb	Rabbit
Streptococcus Group A	C65421M	MAb	Mouse
Streptococcus Group A	B65150F	PAb	Goat
Streptococcus Group A	B65150G	PAb	Goat
Streptococcus Group A	B65510R	PAb	Rabbit
<b>STREPTOCOCCUS PNEUMONIAE</b>			
<i>S. pneumoniae</i>	A01719N	Ag	Native
<i>S. pneumoniae</i>	B65831R	PAb	Rabbit
<i>S. pneumoniae</i> common cell wall polysaccharide (CWPS)	C01758R	MAb	Rabbit
<i>S. pneumoniae</i> common cell wall polysaccharide (CWPS)	C01759R	MAb	Rabbit
<i>S. pneumoniae</i> common C-polysaccharide	C01636M	MAb	Mouse
<i>S. pneumoniae</i> common C-polysaccharide	C01637M	MAb	Mouse
<i>S. pneumoniae</i> common C-polysaccharide	C01638M	MAb	Mouse



# Gastrointestinal Diseases

Acute gastroenteritis is a common syndrome that is generally caused by a virus, parasite or food-borne bacteria. Diagnosis of the responsible intestinal pathogen requires the detection of the organism in feces, duodenal fluid, or small intestine using biopsy specimens.

Since fecal examination is labor intensive and requires a skilled microscopist, antigen detection tests have been developed as alternatives using direct fluorescent antibody (DFA), enzyme immunoassay (EIA), and rapid, dipstick-like tests. These immunoassays are quick to perform, do not require skilled personnel and are very specific. There are many commercially available diagnostics for a range of gastrointestinal pathogens, including panel assays that simultaneously test for a range of possible infectious agents using a single stool sample.

## Antibody Pairs

	CAPTURE	DETECTION	CAPTURE	DETECTION	
Astrovirus	C01981M	C01982M	<i>E. coli</i> Heat-Stable Enterotoxin (STp)	C01806M	C01805M
	C01981M	C01983M		C01807M	C01805M
	C01984M	C01982M	<i>E. histolytica</i>	C01935M	C01935M
	C01984M	C01983M		C01945M	C01945M
	C01955M	C01954M	<i>E. histolytica</i> & <i>E. dispar</i>	C01936M	C01936M
<i>C. botulinum</i> Type A Toxoid	C86211M	C86468M		C01598M	C65361M
<i>C. botulinum</i> Type B Toxoid	C01722M	C86018M	<i>G. lamblia</i>	C01948M	C01949M
<i>C. difficile</i> GDH	C01957M	C01957M		C65672M	C65361M
<i>C. difficile</i> Toxin A	C01678M	C01677M		C65612M	C65361M
	C65715M	C01677M		C65672M	C01597M
	C65555M	C01677M	Norovirus	C01257M	C01258M
	C65555M	C01678M		C01258M	C01257M
<i>C. difficile</i> Toxin B	C65423M	C65426M		C01902M	C01903M
<i>C. jejuni</i>	C65727M	C65727M		C01903M	C01904M
<i>C. jejuni</i> and <i>C. coli</i>	C01947M	C01946M		C01905M	C01905M
<i>C. parvum</i>	C01948M	C01948M	Norovirus GI	C01871M	C01875M
Cholera Toxin - beta subunit	C01593M	C01592M		C01872M	C01871M
	C01593M	C01594M		C01873M	C01875M
<i>E. coli</i> O157	C01534M	C01533M		C01874M	C01875M
	C01535M	C01533M	Norovirus GII	C01876M	C01877M
	C01536M	C01533M		C01877M	C01877M
	C01537M	C01534M		C01877M	C01878M
	C01958M	C01958M		C01879M	C01877M
<i>E. coli</i> Heat-Labile Enterotoxin (LT)	C01804M	C01801M		C01880M	C01878M
	C01803M	C01802M		C01880M	C01880M
Rotavirus	C65196M	C65194M	Rotavirus	C65196M	C65197M
	C65196M	C65197M		C01729M	C01730M
	C01729M	C01730M			

## Antibody Pairs continued

	CAPTURE	DETECTION		CAPTURE	DETECTION
Salmonella species	C01358M	C01360M		C01795M	C01793M
	C01358M	C01361M		C01796M	C01794M
	C01359M	C01360M		C01797M	C01798M
	C01359M	C01361M		C01799M	C01800M
<i>S. aureus</i> Enterotoxin A (SEA)	C86104M	C86205M		C01273M	C01274M
	C86107M	C86104M		C01919M	C01918M
	C86205M	C86104M		C01362M	C01362M
	C86411M	C86104M		C01921M	C01918M
<i>S. aureus</i> Enterotoxin B (SEB)	C86220M	C86400M			

## Full product list

Specificity	Catalog #	Type	Host
<b>ASTROVIRUS</b>			
Astrovirus	C01954M	MAb	Mouse
Astrovirus	C01955M	MAb	Mouse
Astrovirus (a group antigen)	C01981M	MAb	Mouse
Astrovirus Capsid	C01982M	MAb	Mouse
Astrovirus Capsid	C01983M	MAb	Mouse
Astrovirus Capsid	C01984M	MAb	Mouse
Astrovirus Capsid	R01729	Ag	<i>E. coli</i>
Astrovirus Capsid Protein	C01297M	MAb	Mouse
Astrovirus, serotype 1	C86192M	MAb	Mouse
<b>CAMPYLOBACTER</b>			
<i>C. coli</i>	A01713N	Ag	Native
<i>C. coli</i> OMP	R01720	Ag	<i>E. coli</i>
<i>C. jejuni</i>	A01714N	Ag	Native
<i>C. jejuni</i>	C65717M	MAb	Mouse
<i>C. jejuni</i>	C65727M	MAb	Mouse
<i>C. jejuni</i>	C66700M	MAb	Mouse
<i>C. jejuni</i>	C86082M	MAb	Mouse
<i>C. jejuni</i>	R14900	Ag	Culture
<i>C. jejuni</i> & <i>C. coli</i>	C01946M	MAb	Mouse
<i>C. jejuni</i> & <i>C. coli</i>	C01947M	MAb	Mouse
<i>C. jejuni</i> OMP	R01721	Ag	<i>E. coli</i>
<b>CHOLERA</b>			
Cholera Toxin B subunit	B65927R	PAb	Rabbit
Cholera Toxin B subunit	C01238M	MAb	Mouse
Cholera Toxin B subunit	C01240M	MAb	Mouse
Cholera Toxin B subunit	C01241M	MAb	Mouse
Cholera Toxin B subunit	C01242M	MAb	Mouse
Cholera Toxin B subunit	C01592M	MAb	Mouse
Cholera Toxin B subunit	C01593M	MAb	Mouse
Cholera Toxin B subunit	C01594M	MAb	Mouse
Cholera Toxin B subunit	C86204M	MAb	Mouse



# Gastrointestinal Diseases

## Full product list continued

Specificity	Catalog #	Type	Host
<b>CLOSTRIDIUM BOTULINUM</b>			
<i>C. botulinum</i> Toxin A (a.a. 1280-1292)	C01372M	MAb	Mouse
<i>C. botulinum</i> Toxin A (a.a. 1280-1292)	C01373M	MAb	Mouse
<i>C. botulinum</i> Toxin A (a.a. 1280-1292)	R01372	Ag	Synthetic
<i>C. botulinum</i> Toxin B (a.a. 1278-1291)	C01374M	MAb	Mouse
<i>C. botulinum</i> Type A Hemagglutinin 33	B76303R	PAb	Rabbit
<i>C. botulinum</i> Type A Neurotoxin Heavy Chain	B01429R	PAb	Rabbit
<i>C. botulinum</i> Type A Neurotoxin Heavy Chain (a.a. 1177-1195)	C86029M	MAb	Mouse
<i>C. botulinum</i> Type A Neurotoxin Heavy Chain (a.a. 869-887)	C86033M	MAb	Mouse
<i>C. botulinum</i> Type A Neurotoxin Light Chain	B76900R	PAb	Rabbit
<i>C. botulinum</i> Type A Toxoid	C86211M	MAb	Mouse
<i>C. botulinum</i> Type A Toxoid	C86468M	MAb	Mouse
<i>C. botulinum</i> Type B Neurotoxin Complex	B76200R	PAb	Rabbit
<i>C. botulinum</i> Type B Toxoid	C01722M	MAb	Mouse
<i>C. botulinum</i> Type B Toxoid	C86018M	MAb	Mouse
<i>C. botulinum</i> Type E Neurotoxin Complex	B76600R	PAb	Rabbit
<b>CLOSTRIDIUM DIFFICILE</b>			
<i>C. difficile</i> GDH	C01957M	MAb	Mouse
<i>C. difficile</i> GDH	R01738	Ag	<i>E. coli</i>
<i>C. difficile</i> Toxin A	B70807G	PAb	Goat
<i>C. difficile</i> Toxin A	C01677M	MAb	Mouse
<i>C. difficile</i> Toxin A	C01678M	MAb	Mouse
<i>C. difficile</i> Toxin A	C65555M	MAb	Mouse
<i>C. difficile</i> Toxin A	C65715M	MAb	Mouse
<i>C. difficile</i> Toxin A	C70472M	MAb	Mouse
<i>C. difficile</i> Toxin A	C70517M	MAb	Mouse
<i>C. difficile</i> Toxin A	R01739	Ag	<i>E. coli</i>
<i>C. difficile</i> Toxin B	C65423M	MAb	Mouse
<i>C. difficile</i> Toxin B	C65424M	MAb	Mouse
<i>C. difficile</i> Toxin B	C65426M	MAb	Mouse
<i>C. difficile</i> Toxin B	C65427M	MAb	Mouse
<i>C. difficile</i> Toxin B	C65429M	MAb	Mouse
<i>C. difficile</i> Toxin B	C70885M	MAb	Mouse
<i>C. difficile</i> Toxin B	C70888M	MAb	Mouse
<i>C. difficile</i> Toxin B	B70224G	PAb	Goat
<i>C. difficile</i> Toxin B	R01740	Ag	<i>E. coli</i>
<b>CLOSTRIDIUM SPECIES</b>			
<i>Clostridium</i> species	B65817R	PAb	Rabbit
<b>CLOSTRIDIUM TETANI</b>			
<i>C. tetani</i> , Tetanus toxoid	B65161G	PAb	Goat
<b>CRYPTOSPORIDIUM PARVUM</b>			
<i>C. parvum</i>	C01948M	MAb	Mouse
<i>C. parvum</i>	A01709N	Ag	Native
<i>C. parvum</i> (Intact Oocysts)	C65370M	MAb	Mouse
<i>C. parvum</i> (Oocysts)	C66512M	MAb	Mouse
<i>C. parvum</i> (Intact Oocysts) Bovine	B65651G	PAb	Goat

Specificity	Catalog #	Type	Host
<b>E. COLI</b>			
<i>E. coli</i>	B47384G	PAb	Goat
<i>E. coli</i>	B47385G	PAb	Goat
<i>E. coli</i> (O & K antigens)	B65001R	PAb	Rabbit
<i>E. coli</i> (O & K antigens)	B65004R	PAb	Rabbit
<i>E. coli</i> (O & K antigens)	B65007R	PAb	Rabbit
<i>E. coli</i> (O & K antigens)	B65109B	PAb	Goat
<i>E. coli</i> (O & K antigens)	B65109F	PAb	Goat
<i>E. coli</i> (O & K antigens)	B65109G	PAb	Goat
<i>E. coli</i> (O & K antigens)	B65109P	PAb	Goat
<i>E. coli</i> Heat-Labile Enterotoxin	C01801M	MAb	Mouse
<i>E. coli</i> Heat-Labile Enterotoxin	C01802M	MAb	Mouse
<i>E. coli</i> Heat-Labile Enterotoxin	C01803M	MAb	Mouse
<i>E. coli</i> Heat-Labile Enterotoxin	C01804M	MAb	Mouse
<i>E. coli</i> Heat-Labile Enterotoxin B-chain	C86222M	MAb	Mouse
<i>E. coli</i> Heat-Labile Enterotoxin B-chain	C86271M	MAb	Mouse
<i>E. coli</i> Heat-Stable Enterotoxin	C01805M	MAb	Mouse
<i>E. coli</i> Heat-Stable Enterotoxin	C01806M	MAb	Mouse
<i>E. coli</i> Heat-Stable Enterotoxin	C01807M	MAb	Mouse
<i>E. coli</i>	C65110M	MAb	Mouse
<i>E. coli</i> O157	A01718N	Ag	Native
<i>E. coli</i> O157	C01533M	MAb	Mouse
<i>E. coli</i> O157	C01534M	MAb	Mouse
<i>E. coli</i> O157	C01535M	MAb	Mouse
<i>E. coli</i> O157	C01536M	MAb	Mouse
<i>E. coli</i> O157	C01537M	MAb	Mouse
<i>E. coli</i> O157	C01958M	MAb	Mouse
<i>E. coli</i> O157	C65160F	MAb	Mouse
<i>E. coli</i> O157	C65160M	MAb	Mouse
<i>E. coli</i> O157:H7	G5V119-500	PAb	Goat
<i>E. coli</i> O157 VT1	R01741	Ag	<i>E. coli</i>
<i>E. coli</i> O157 VT2	R01742	Ag	<i>E. coli</i>
<b>ENTAMOEBA</b>			
<i>E. dispar</i>	R01719	Ag	<i>E. coli</i>
<i>E. histolytica</i>	C01935M	MAb	Mouse
<i>E. histolytica</i>	R01718	Ag	<i>E. coli</i>
<i>E. histolytica</i> & <i>E. dispar</i>	C01945M	MAb	Mouse
<i>E. histolytica</i> & <i>E. dispar</i>	C01933M	MAb	Mouse
<i>E. histolytica</i> & <i>E. dispar</i>	C01934M	MAb	Mouse
<i>E. histolytica</i> & <i>E. dispar</i>	C01936M	MAb	Mouse
<i>E. histolytica</i> HK-9	C55170M	MAb	Mouse
<b>GIARDIA LAMBLIA</b>			
<i>G. lamblia</i>	B65640G	PAb	Goat
<i>G. lamblia</i> cysts	C02022M	MAb	Mouse
<i>G. lamblia</i> cysts	C02023M	MAb	Mouse
<i>G. lamblia</i> cysts	C02024M	MAb	Mouse
<i>G. lamblia</i>	C01597M	MAb	Mouse
<i>G. lamblia</i>	C01598M	MAb	Mouse
<i>G. lamblia</i>	C65361M	MAb	Mouse
<i>G. lamblia</i>	C65612M	MAb	Mouse
<i>G. lamblia</i>	C65672M	MAb	Mouse
<i>G. lamblia</i>	C66513M	MAb	Mouse



# Gastrointestinal Diseases

## Full product list continued

Specificity	Catalog #	Type	Host
<i>G. lamblia</i> cyst	R01723	Ag	<i>P. pastoris</i>
<i>G. lamblia</i> trophozoite	C01949M	MAb	Mouse
<i>G. lamblia</i> trophozoite	C01950M	MAb	Mouse
<i>G. lamblia</i> trophozoite	R01722	Ag	<i>E. coli</i>
<b>HELICOBACTER PYLORI</b>			
<i>H. pylori</i>	A01722	Ag	Culture
<i>H. pylori</i>	R14101	Ag	Culture
<i>H. pylori</i>	C01956M	MAb	Mouse
<i>H. pylori</i> (Strain 43504)	R92101	Ag	Culture
<i>H. pylori</i> (all antigens)	B65660P	PAb	Rabbit
<i>H. pylori</i> (all antigens)	B65660R	PAb	Rabbit
<i>H. pylori</i> (flagellin)	C01764M	MAb	Mouse
<i>H. pylori</i> (flagellin)	C01901M	MAb	Mouse
<i>H. pylori</i> 19kDa (OMP)	C65626M	MAb	Mouse
<i>H. pylori</i> 19kDa (OMP)	C65661M	MAb	Mouse
<i>H. pylori</i> 54kDa (flagellin)	C65461M	MAb	Mouse
<i>H. pylori</i> 54kDa (flagellin)	C65516M	MAb	Mouse
<i>H. pylori</i> 58kDa (HSP)	C65586M	MAb	Mouse
<i>H. pylori</i> CagA	C01529M	MAb	Mouse
<b>NOROVIRUS</b>			
Norovirus	C01902M	MAb	Mouse
Norovirus	C01903M	MAb	Mouse
Norovirus	C01904M	MAb	Mouse
Norovirus	C01905M	MAb	Mouse
Norovirus Capsid Protein	C01257M	MAb	Mouse
Norovirus Capsid Protein	C01258M	MAb	Mouse
Norovirus GI Capsid Protein	C01871M	MAb	Mouse
Norovirus GI.1 P Domain	R01730	Ag	<i>E. coli</i>
Norovirus GI.1 VLP	R01744	Ag	Culture
Norovirus GI.3 Domain	R01731	Ag	<i>E. coli</i>
Norovirus GI Capsid Protein	C01872M	MAb	Mouse
Norovirus GI Capsid Protein	C01873M	MAb	Mouse
Norovirus GI Capsid Protein	C01874M	MAb	Mouse
Norovirus GI Capsid Protein	C01875M	MAb	Mouse
Norovirus GII.4 VLP	R01745	Ag	Culture
Norovirus GII.10 Domain	R01732	Ag	<i>E. coli</i>
Norovirus GII.17 Domain	R01733	Ag	<i>E. coli</i>
Norovirus GII.4 Domain	R01734	Ag	<i>E. coli</i>
Norovirus GII Capsid Protein	C01876M	MAb	Mouse
Norovirus GII Capsid Protein	C01877M	MAb	Mouse
Norovirus GII Capsid Protein	C01878M	MAb	Mouse
Norovirus GII Capsid Protein	C01879M	MAb	Mouse
Norovirus GII Capsid Protein	C01880M	MAb	Mouse
Norovirus Virus-Like Particles (VLP) GI.1 Norwalk, GI.3 Desert Shield, GI.4 Chiba	C01808M	MAb	Mouse
Norovirus Virus-Like Particles (VLP) GII.4 1987-2006	C01809M	MAb	Mouse
Norovirus Virus-Like Particles (VLP) GII.4 1987-2009 and 2012	C01813M	MAb	Mouse
Norovirus Virus-Like Particles (VLP) GII.4 1987-2010	C01811M	MAb	Mouse
Norovirus Virus-Like Particles (VLP) GII.4 1987-2010, GII.1 1971 and GII.2 1976	C01812M	MAb	Mouse
Norovirus Virus-Like Particles (VLP) GII.4 2002-2010	C01810M	MAb	Mouse
Norovirus Virus-Like Particles (VLP) Major Capsid Protein of both GI and GII	C01814M	MAb	Mouse

Specificity	Catalog #	Type	Host
<b>ROTAVIRUS</b>			
Rotavirus	C01729M	MAb	Mouse
Rotavirus	C01730M	MAb	Mouse
Rotavirus	C65194M	MAb	Mouse
Rotavirus	C65196M	MAb	Mouse
Rotavirus	C65197M	MAb	Mouse
Rotavirus Vp7	C01715M	MAb	Mouse
Rotavirus broad reactivity	C65521M	MAb	Mouse
Rotavirus Group A Specific Antigen, Vp6	C01295M	MAb	Mouse
Rotavirus Group A Specific Antigen, Vp6	C66130M	MAb	Mouse
Rotavirus Group Specific Antigen	C86310M	MAb	Mouse
Rotavirus NCDV (Nebraska Calf Diarrhea Virus)(all antigens)	B65110G	PAb	Goat
Rotavirus NCDV (Nebraska Calf Diarrhea Virus)(all antigens)	B65211G	PAb	Goat
Rotavirus NCDV (Nebraska Calf Diarrhea Virus)(all antigens)	B65212G	PAb	Goat
Rotavirus NCDV (Nebraska Calf Diarrhea Virus)(all antigens)	B65213G	PAb	Goat
Rotavirus (all serotypes)	B01235S	PAb	Sheep
Rotavirus SA-11	7844	Ag	Native
<b>SALMONELLA</b>			
Salmonella species	B65701R	PAb	Rabbit
Salmonella species	B65703R	PAb	Rabbit
Salmonella species	B65704R	PAb	Rabbit
Salmonella species	B65707R	PAb	Rabbit
Salmonella species (A,B & D Groups)	C86109M	MAb	Mouse
Salmonella species (A,B,C,D & E Groups)	C65635M	MAb	Mouse
Salmonella species (A,B,C,D,E,F & G Groups)	C01358M	MAb	Mouse
Salmonella species (A,B,C,D,E,F & G Groups)	C01359M	MAb	Mouse
Salmonella species (A,B,C,D,E,F & G Groups)	C01360M	MAb	Mouse
Salmonella species (A,B,C,D,E,F & G Groups)	C01361M	MAb	Mouse
Salmonella species (A,B,C,D,E,F & G Groups)	C65957M	MAb	Mouse
Salmonella species (A,B,C,D,E,F & G Groups)	C65958M	MAb	Mouse
Salmonella LPS Core	C01918M	MAb	Mouse
<i>S. enteritidis</i>	A01702N	Ag	Culture
<i>S. paratyphi</i>	C01921M	MAb	Mouse
<i>S. paratyphi</i> A	C01884M	MAb	Mouse
<i>S. paratyphi</i> A	A01700N	Ag	Culture
<i>S. paratyphi</i> B	A01701N	Ag	Culture
<i>S. typhi</i>	A01699N	Ag	Culture
<i>S. typhi</i>	A01716N	Ag	Native
<i>S. typhi</i> flagellin	R01746	Ag	<i>E. coli</i>
<i>S. typhi</i> H Antigen	R01699	Ag	<i>E. coli</i>
<i>S. typhi</i> Outer Membrane Protein	R01670	Ag	<i>E. coli</i>
<i>S. typhi</i> (LPS)	C01919M	MAb	Mouse
<i>S. typhi</i> (LPS)	C86309M	MAb	Mouse
<i>S. typhi</i> (LPS)	C01362M	MAb	Mouse
<b>SHIGELLA</b>			
<i>S. boydii</i>	A01704N	Ag	Culture
<i>S. dysenteriae</i>	A01705N	Ag	Culture
<i>S. flexneri</i>	A01721N	Ag	Native
<i>S. sonnei</i>	A01706N	Ag	Culture
Shigella species	B65901R	PAb	Rabbit



# Gastrointestinal Diseases

## Full product list continued

Specificity	Catalog #	Type	Host
<b>STAPHYLOCOCCUS AUREUS</b>			
<i>S. aureus</i>	B65881R	PAb	Rabbit
<i>S. aureus</i> Enterotoxin B (SEB)	B65851R	PAb	Rabbit
<i>S. aureus</i> Enterotoxin B (SEB)	R5V100-754	PAb	Rabbit
<i>S. aureus</i> Enterotoxin C (SEC)	R5V152-754	PAb	Rabbit
<i>S. aureus</i> Enterotoxin D (SED)	R5V151-754	PAb	Rabbit
<i>S. aureus</i> Enterotoxin E (SEE)	R5V150-754	PAb	Rabbit
<i>S. aureus</i> Enterotoxin H (SEH)	R5V149-754	PAb	Rabbit
<i>S. aureus</i>	C55570B	MAb	Mouse
<i>S. aureus</i>	C55570M	MAb	Mouse
<i>S. aureus</i>	C55704M	MAb	Mouse
<i>S. aureus</i> Enterotoxin A (SEA)	C86104M	MAb	Mouse
<i>S. aureus</i> Enterotoxin A (SEA)	C86107M	MAb	Mouse
<i>S. aureus</i> Enterotoxin A (SEA)	C86205M	MAb	Mouse
<i>S. aureus</i> Enterotoxin A (SEA)	C86411M	MAb	Mouse
<i>S. aureus</i> Enterotoxin B (SEB)	C86220M	MAb	Mouse
<i>S. aureus</i> Enterotoxin B (SEB)	C86400M	MAb	Mouse
<i>S. aureus</i> Enterotoxin B (SEB)	MAV100-233	MAb	Mouse
<i>S. aureus</i> Enterotoxin B (SEB)	MAV100-265	MAb	Mouse
<i>S. aureus</i> Enterotoxin C (SEC)	MAV152-165	MAb	Mouse
<i>S. aureus</i> Enterotoxin D (SED)	C01793M	MAb	Mouse
<i>S. aureus</i> Enterotoxin D (SED)	C01794M	MAb	Mouse
<i>S. aureus</i> Enterotoxin D (SED)	C01795M	MAb	Mouse
<i>S. aureus</i> Enterotoxin D (SED)	C01796M	MAb	Mouse
<i>S. aureus</i> Enterotoxin E (SEE)	C01797M	MAb	Mouse
<i>S. aureus</i> Enterotoxin E (SEE)	C01798M	MAb	Mouse
<i>S. aureus</i> Enterotoxin E (SEE)	C01799M	MAb	Mouse
<i>S. aureus</i> Enterotoxin E (SEE)	C01800M	MAb	Mouse
<i>S. aureus</i> Enterotoxin G (SEG)	C01273M	MAb	Mouse
<i>S. aureus</i> Enterotoxin G (SEG)	C01274M	MAb	Mouse
<i>S. aureus</i> Enterotoxin I (SEI)	C01272M	MAb	Mouse
<b>VEROTOXIN</b>			
<i>E. coli</i> Shiga Toxin 1 & 2 (Verotoxin)	MAV65-912	MAb	Mouse
<i>E. coli</i> Shiga-Like Toxin 1 alpha & beta Subunits (Verotoxin)	MAV66-310	MAb	Mouse
<i>E. coli</i> Shiga-Like Toxin 2 beta Subunit (Verotoxin)	MAV67-212	MAb	Mouse
Verotoxin I (Shiga-Like) B Subunit	C01690M	MAb	Mouse
Verotoxin II (Shiga-Like) A Subunit	C65585M	MAb	Mouse
Shiga Toxin Type II-B (Verotoxin)	C01786M	MAb	Mouse
Shiga-Like Toxin 1 & 2 B Subunit (Verotoxin)	C66510M	MAb	Mouse

# Food & Water Safety Testing

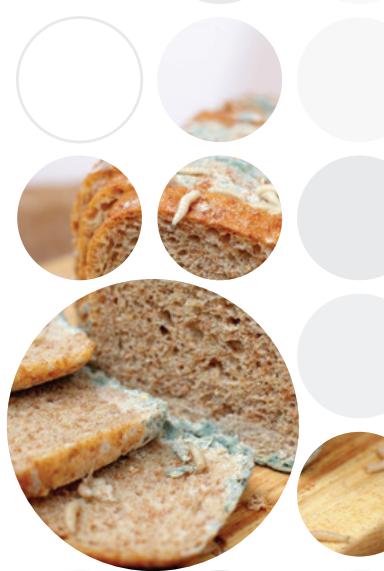
Food safety is a major global, public health concern with an estimated 600 million with almost 1 in 10 people in the world per year falling ill after eating contaminated food. The detection of microorganisms in food and water is an essential part of any quality control or food safety plan.

Food safety, nutrition and food security are inextricably linked. Unsafe food creates a vicious cycle of disease and malnutrition, particularly affecting infants, young children, the elderly and the sick. Diarrheal diseases are the most common illnesses resulting from the consumption of contaminated food, causing 420,000 deaths every year.

Foodborne illness is caused by various bacteria, viruses, parasites and chemical substances and can lead to more than 200 different diseases ranging from diarrhea to cancers. Sources of drinking water contamination include naturally occurring chemicals and minerals (for example, arsenic, radon, uranium), local land use practices (fertilizers, pesticides, concentrated feeding operations), manufacturing processes, and sewer overflows or wastewater releases. Traditional methods of detecting food and water illnesses are often impractical and time-consuming because of the need for growth in culture media followed by isolation, biochemical and/or serological identification. Advances in technology such as antibody and DNA-based assays have made detection and identification faster, more sensitive, more specific, and more convenient than traditional assays. However, even with the application of modern laboratory techniques, there still remains a considerable challenge in identifying the microorganisms responsible for outbreaks.

## Antibody Pairs

	CAPTURE	DETECTION
Astrovirus	C01981M	C01982M
	C01981M	C01983M
	C01984M	C01982M
	C01984M	C01983M
	C01955M	C01954M
B. thuringiensis (Bt) cry1Ab/Cry/Ac	F01266M	F01267M
	F01269M	F01268M
C. jejuni	C65727M	C65727M
C. jejuni and C. coli	C01947M	C01946M
C. parvum	C01948M	C01948M
Cholera Toxin - beta subunit	C01593M	C01592M
	C01593M	C01594M
CP4-EPSPS	F01249M	F01248M
	F01251M	F01250M
<i>E. coli</i> O157	C01534M	C01533M
	C01535M	C01533M
	C01536M	C01533M
	C01537M	C01534M
	C01958M	C01958M
<i>E. coli</i> Heat-Labile Enterotoxin (LT)	C01804M	C01801M
	C01803M	C01802M
<i>E. coli</i> Heat-Stable Enterotoxin (STp)	C01806M	C01805M
	C01807M	C01805M
<i>E. histolytica</i>	C01935M	C01935M
<i>E. histolytica</i> & <i>E. dispar</i>	C01936M	C01936M
	C01945M	C01945M
G2 EPSPS	F01255M	F01254M
	F01257M	F01256M



# Food & Water Safety Testing

## Antibody Pairs continued

	CAPTURE	DETECTION		CAPTURE	DETECTION
<i>G. lamblia</i>	C01598M	C65361M	Norovirus GII	C01876M	C01877M
	C01950M	C01949M		C01877M	C01877M
	C65672M	C65361M		C01877M	C01878M
	C65612M	C65361M		C01879M	C01877M
	C65672M	C01597M		C01880M	C01878M
Glutamate Dehydrogenase	C01645M	C01646M	Rotavirus	C01880M	C01880M
	C01645M	C01647M		C65196M	C65194M
<i>H. pylori</i> (flagellin)	C01901M	C01901M		C65196M	C65197M
Hemorrhagic fever with renal syndrome (HFRS) Virus	C01564M	C01563M		C01729M	C01730M
	C01686M	C01689M	<i>S. aureus</i> Enterotoxin A (SEA)	C86104M R	C86205M
<i>L. monocytogenes</i>	C01686M	R C01687M		C86107M	C86104M
	C01686M	R C01688M		C86411M	C86104M
	C01257M	R C01258M		C86220M	C86400M
Norovirus	C01902M	C01903M	<i>S. aureus</i> Enterotoxin D (SED)	C01795M	C01793M
	C01903M	C01904M		C01796M	C01794M
	C01905M	C01905M	<i>S. aureus</i> Enterotoxin E (SEE)	C01797M	C01798M
	C01871M	C01875M		C01799M	C01800M
Norovirus GI	C01872M	C01871M	<i>S. aureus</i> Enterotoxin G (SEG)	C01273M	C01274M
	C01873M	C01875M		C01362M	C01362M
	C01874M	C01875M	<i>S. typhi</i>	C01921M	C01918M
				C01919M	C01918M
Salmonella species			<i>S. paratyphi</i>	C01358M	C01360M
				C01358M	C01361M
				C01359M	C01360M
				C01359M	C01361M

R - Reversible

## Full product list

Specificity	Catalog #	Type	Host
<b>AFLATOXIN</b>			
Aflatoxin	K86207M	MAb	Mouse
Aflatoxin M1 and B1	C01662M	MAb	Rat
Aflatoxin M1 and B1	C01663M	MAb	Rat
Aflatoxin M1 and B1	C01664M	MAb	Rat
Aflatoxin BSA Conjugated	R01537	Ag	N/A
<b>ASPERGILLUS</b>			
Aspergillus	B65821R	PAb	Rabbit
<i>A. fumigatus</i>	R14200	Ag	Culture

Specificity	Catalog #	Type	Host
<b>ASTROVIRUS</b>			
Astrovirus	C01954M	MAb	Mouse
Astrovirus	C01955M	MAb	Mouse
Astrovirus (a group antigen)	C01981M	MAb	Mouse
Astrovirus Capsid	C01982M	MAb	Mouse
Astrovirus Capsid	C01983M	MAb	Mouse
Astrovirus Capsid	C01984M	MAb	Mouse
Astrovirus Capsid	R01729	Ag	<i>E. coli</i>
Astrovirus Capsid Protein	C01297M	MAb	Mouse
Astrovirus, serotype 1	C86192M	MAb	Mouse
<b>BACILLUS THURINGIENIS (BT)</b>			
BT (Cry1Ab/Cry1Ac)	F01266M	MAb	Mouse
BT (Cry1Ab/Cry1Ac)	F01267M	MAb	Mouse
BT (Cry1Ab/Cry1Ac)	F01268M	MAb	Mouse
BT (Cry1Ab/Cry1Ac)	F01269M	MAb	Mouse
<b>BACTEROIDES THETAIOTAOMICRON</b>			
<i>B. thetaiotaomicron</i>	C01259M	MAb	Mouse
<b>CAMPYLOBACTER</b>			
<i>C. coli</i>	A01713N	Ag	Native
<i>C. coli</i> OMP	R01720	Ag	<i>E. coli</i>
<i>C. jejuni</i>	A01714N	Ag	Native
<i>C. jejuni</i>	C65717M	MAb	Mouse
<i>C. jejuni</i>	C65727M	MAb	Mouse
<i>C. jejuni</i>	C66700M	MAb	Mouse
<i>C. jejuni</i>	C86082M	MAb	Mouse
<i>C. jejuni</i>	R14900	Ag	Culture
<i>C. jejuni</i> & <i>C. coli</i>	C01946M	MAb	Mouse
<i>C. jejuni</i> & <i>C. coli</i>	C01947M	MAb	Mouse
<i>C. jejuni</i> OMP	R01721	Ag	<i>E. coli</i>
<b>CHOLERA</b>			
Cholera Toxin B subunit	B65927R	PAb	Rabbit
Cholera Toxin B subunit	C01238M	MAb	Mouse
Cholera Toxin B subunit	C01240M	MAb	Mouse
Cholera Toxin B subunit	C01241M	MAb	Mouse
Cholera Toxin B subunit	C01242M	MAb	Mouse
Cholera Toxin B subunit	C01592M	MAb	Mouse
Cholera Toxin B subunit	C01593M	MAb	Mouse
Cholera Toxin B subunit	C86204M	MAb	Mouse
<b>CP4 5-ENOLPYRUVYLSHIKIMATE-3-PHOSPHATE SYNTHASE (CP4-EPSPS)</b>			
CP4-EPSPS	F01248M	MAb	Mouse
CP4-EPSPS	F01249M	MAb	Mouse
CP4-EPSPS	F01250M	MAb	Mouse
CP4-EPSPS	F01251M	MAb	Mouse
<b>CRYPTOSPORIDIUM PARVUM</b>			
<i>C. parvum</i>	A01709N	Ag	Native
<i>C. parvum</i>	C01948M	MAb	Mouse
<i>C. parvum</i> (Intact Oocysts) Bovine	B65651G	PAb	Goat
<i>C. parvum</i> (Intact Oocysts)	C65370M	MAb	Mouse
<i>C. parvum</i> (Oocysts)	C66512M	MAb	Mouse

# Food & Water Safety Testing

## Full product list continued

Specificity	Catalog #	Type	Host
<b>DOMOIC ACID</b>			
Domoic Acid	B01439R	PAb	Rabbit
Domoic Acid	B01440R	PAb	Rabbit
<b>E. COLI</b>			
<i>E. coli</i>	B47384G	PAb	Goat
<i>E. coli</i>	B47385G	PAb	Goat
<i>E. coli</i> (O & K antigens)	B65001R	PAb	Rabbit
<i>E. coli</i> (O & K antigens)	B65004R	PAb	Rabbit
<i>E. coli</i> (O & K antigens)	B65007R	PAb	Rabbit
<i>E. coli</i> (O & K antigens)	B65109B	PAb	Goat
<i>E. coli</i> (O & K antigens)	B65109F	PAb	Goat
<i>E. coli</i> (O & K antigens)	B65109G	PAb	Goat
<i>E. coli</i> (O & K antigens)	B65109P	PAb	Goat
<i>E. coli</i>	C65110M	MAb	Mouse
<i>E. coli</i> Heat-Labile Enterotoxin	C01801M	MAb	Mouse
<i>E. coli</i> Heat-Labile Enterotoxin	C01802M	MAb	Mouse
<i>E. coli</i> Heat-Labile Enterotoxin	C01803M	MAb	Mouse
<i>E. coli</i> Heat-Labile Enterotoxin	C01804M	MAb	Mouse
<i>E. coli</i> Heat-Labile Enterotoxin B-chain	C86222M	MAb	Mouse
<i>E. coli</i> Heat-Labile Enterotoxin B-chain	C86271M	MAb	Mouse
<i>E. coli</i> Heat-Stable Enterotoxin	C01805M	MAb	Mouse
<i>E. coli</i> Heat-Stable Enterotoxin	C01806M	MAb	Mouse
<i>E. coli</i> Heat-Stable Enterotoxin	C01807M	MAb	Mouse
<i>E. coli</i> O157	A01718N	Ag	Native
<i>E. coli</i> O157	C01533M	MAb	Mouse
<i>E. coli</i> O157	C01534M	MAb	Mouse
<i>E. coli</i> O157	C01535M	MAb	Mouse
<i>E. coli</i> O157	C01536M	MAb	Mouse
<i>E. coli</i> O157	C01537M	MAb	Mouse
<i>E. coli</i> O157	C01958M	MAb	Mouse
<i>E. coli</i> O157	C65160F	MAb	Mouse
<i>E. coli</i> O157	C65160M	MAb	Mouse
<i>E. coli</i> O157:H7	G5V119-500	PAb	Goat
<i>E. coli</i> O157 VT1	R01741	Ag	<i>E. coli</i>
<i>E. coli</i> O157 VT2	R01742	Ag	<i>E. coli</i>
<i>E. coli</i> Shiga-Like Toxin 2 beta Subunit (Verotoxin)	MAV67-212	MAb	Mouse
<b>ENTAMOEBA</b>			
<i>E. dispar</i>	R01719	Ag	<i>E. coli</i>
<i>E. histolytica</i>	C01935M	MAb	Mouse
<i>E. histolytica</i>	R01718	Ag	<i>E. coli</i>
<i>E. histolytica</i> & <i>E. dispar</i>	C01933M	MAb	Mouse
<i>E. histolytica</i> & <i>E. dispar</i>	C01934M	MAb	Mouse
<i>E. histolytica</i> & <i>E. dispar</i>	C01936M	MAb	Mouse
<i>E. histolytica</i> & <i>E. dispar</i>	C01945M	MAb	Mouse
<i>E. histolytica</i> HK-9	C55170M	MAb	Mouse
<b>ENTEROBACTERIAL COMMON ANTIGEN (ECA)</b>			
ECA	C01846M	MAb	Mouse
<b>ENTEROCOCCUS SPECIES</b>			
Enterococcus species	B65173R	PAb	Rabbit

Specificity	Catalog #	Type	Host
<b>G2 ENOPYRUVYLSHIKIMATE-3-PHODPHATE SYNTHASE (G2 EPSPS)</b>			
G2 EPSPS	F01254M	MAb	Mouse
G2 EPSPS	F01255M	MAb	Mouse
G2 EPSPS	F01256M	MAb	Mouse
G2 EPSPS	F01257M	MAb	Mouse
<b>GIARDIA LAMBLIA</b>			
<i>G. lamblia</i>	B65640G	PAb	Goat
<i>G. lamblia</i> cysts	C02022M	MAb	Mouse
<i>G. lamblia</i> cysts	C02023M	MAb	Mouse
<i>G. lamblia</i> cysts	C02024M	MAb	Mouse
<i>G. lamblia</i>	C01597M	MAb	Mouse
<i>G. lamblia</i>	C01598M	MAb	Mouse
<i>G. lamblia</i>	C65361M	MAb	Mouse
<i>G. lamblia</i>	C65612M	MAb	Mouse
<i>G. lamblia</i>	C65672M	MAb	Mouse
<i>G. lamblia</i>	C66513M	MAb	Mouse
<i>G. lamblia</i> cyst	R01723	Ag	<i>P. pastoris</i>
<i>G. lamblia</i> trophozoite	C01949M	MAb	Mouse
<i>G. lamblia</i> trophozoite	C01950M	MAb	Mouse
<i>G. lamblia</i> trophozoite	R01722	Ag	<i>E. coli</i>
<b>GLUTAMATE DEHYDROGENASE</b>			
Glutamate Dehydrogenase, Clostridia Species	C01645M	MAb	Mouse
Glutamate Dehydrogenase, Clostridia Species	C01646M	MAb	Mouse
Glutamate Dehydrogenase, Clostridia Species	C01647M	MAb	Mouse
<b>GRAM POSITIVE BACTERIA</b>			
Gram Positive Bacteria	C65380M	MAb	Mouse
Gram Positive Bacteria	C65813M	MAb	Mouse
<b>HANTAVIRUS</b>			
Hantavirus (Hantaan)	C44905M	MAb	Mouse
Hantavirus (Hantaan)	C44905P	MAb	Mouse
Hantavirus (Puumala)	C44105M	MAb	Mouse
<b>HELICOBACTER PYLORI</b>			
<i>H. pylori</i>	C01956M	MAb	Mouse
<i>H. pylori</i>	A01722	Ag	Culture
<i>H. pylori</i>	R14101	Ag	Culture
<i>H. pylori</i> (Strain 43504)	R92101	Ag	Culture
<i>H. pylori</i> (all antigens)	B65660P	PAb	Rabbit
<i>H. pylori</i> (all antigens)	B65660R	PAb	Rabbit
<i>H. pylori</i> (flagellin)	C01764M	MAb	Mouse
<i>H. pylori</i> (flagellin)	C01901M	MAb	Mouse
<i>H. pylori</i> 19kDa (OMP)	C65626M	MAb	Mouse
<i>H. pylori</i> 19kDa (OMP)	C65661M	MAb	Mouse
<i>H. pylori</i> 54kDa (flagellin)	C65461M	MAb	Mouse
<i>H. pylori</i> 54kDa (flagellin)	C65516M	MAb	Mouse
<i>H. pylori</i> 58kDa (HSP)	C65586M	MAb	Mouse
<i>H. pylori</i> CagA	C01529M	MAb	Mouse
<b>HEMORRHAGIC FEVER WITH RENAL SYNDROME (HFRS)</b>			
HFRS Virus	C01563M	MAb	Mouse
HFRS Virus	C01564M	MAb	Mouse

# Food & Water Safety Testing

## Full product list continued

Specificity	Catalog #	Type	Host
<b>LEGIONELLA PNEUMOPHILA</b>			
<i>L. pneumophila</i>	A01715N	Ag	Native
<i>L. pneumophila</i>	B65051G	PAb	Rabbit
<i>L. pneumophila</i>	B65053F	PAb	Rabbit
<i>L. pneumophila</i>	B65054R	PAb	Rabbit
<i>L. pneumophila</i>	B65057B	PAb	Rabbit
<i>L. pneumophila</i> LPS	C01590M	MAb	Mouse
<i>L. pneumophila</i> LPS	C01591M	MAb	Mouse
<i>L. pneumophila</i> LPS	C01951M	MAb	Mouse
<i>L. pneumophila</i> LPS	C01952M	MAb	Mouse
<i>L. pneumophila</i> LPS Philadelphia 1 strain	C01685M	MAb	Mouse
<i>L. pneumophila</i> LPS Philadelphia 1 strain	C86135B	MAb	Mouse
<i>L. pneumophila</i> LPS Philadelphia 1 strain	C86135M	MAb	Mouse
<i>L. pneumophila</i> Serogroup 1	C01757R	MAb	Rabbit
<i>L. pneumophila</i> Serovars 1-7	R14610	Ag	Culture
<b>LEPTOSPIRA BIFLEXA</b>			
<i>L. biflexa</i>	B65401R	PAb	Rabbit
<b>LISTERIA</b>			
<i>L. flagella</i>	C01917M	MAb	Mouse
Listeria	G5V99-500	PAb	Goat
<i>L. monocytogenes</i>	A01710N	Ag	Culture
<i>L. monocytogenes</i>	B65420B	PAb	Rabbit
<i>L. monocytogenes</i>	B65420F	PAb	Rabbit
<i>L. monocytogenes</i>	B65420P	PAb	Rabbit
<i>L. monocytogenes</i>	B65420R	PAb	Rabbit
<i>L. monocytogenes</i> P60	C01686M	MAb	Mouse
<i>L. monocytogenes</i> P60	C01687M	MAb	Mouse
<i>L. monocytogenes</i> P60	C01688M	MAb	Mouse
<i>L. monocytogenes</i> P60	C01689M	MAb	Mouse
<b>MICROCYSTIN</b>			
Microcystin-LR	C01515M	MAb	Mouse
Microcystin-LR	C01516M	MAb	Mouse
<b>NOROVIRUS</b>			
Norovirus	C01902M	MAb	Mouse
Norovirus	C01903M	MAb	Mouse
Norovirus	C01904M	MAb	Mouse
Norovirus	C01905M	MAb	Mouse
Norovirus Capsid Protein	C01257M	MAb	Mouse
Norovirus Capsid Protein	C01258M	MAb	Mouse
Norovirus GI.1 P Domain	R01730	Ag	<i>E. coli</i>
Norovirus GI.1 VLP	R01744	Ag	Culture
Norovirus GI.3 Domain	R01731	Ag	<i>E. coli</i>
Norovirus GI Capsid Protein	C01871M	MAb	Mouse
Norovirus GI Capsid Protein	C01872M	MAb	Mouse
Norovirus GI Capsid Protein	C01873M	MAb	Mouse
Norovirus GI Capsid Protein	C01874M	MAb	Mouse
Norovirus GI Capsid Protein	C01875M	MAb	Mouse
Norovirus GII.4 VLP	R01745	Ag	Culture
Norovirus GII.10 Domain	R01732	Ag	<i>E. coli</i>
Norovirus GII.17 Domain	R01734	Ag	<i>E. coli</i>
Norovirus GII.4 Domain	R01733	Ag	<i>E. coli</i>
Norovirus GII Capsid Protein	C01876M	MAb	Mouse

Specificity	Catalog #	Type	Host
Norovirus GII Capsid Protein	C01877M	MAb	Mouse
Norovirus GII Capsid Protein	C01878M	MAb	Mouse
Norovirus GII Capsid Protein	C01879M	MAb	Mouse
Norovirus GII Capsid Protein	C01880M	MAb	Mouse
Norovirus Virus-Like Particles (VLP) GI.1 Norwalk, GI.3 Desert Shield, GI.4 Chiba	C01808M	MAb	Mouse
Norovirus Virus-Like Particles (VLP) GII.4 1987-2006	C01809M	MAb	Mouse
Norovirus Virus-Like Particles (VLP) GII.4 1987-2009 and 2012	C01813M	MAb	Mouse
Norovirus Virus-Like Particles (VLP) GII.4 1987-2010	C01811M	MAb	Mouse
Norovirus Virus-Like Particles (VLP) GII.4 1987-2010, GII.1 1971 and GII.2 1976	C01812M	MAb	Mouse
Norovirus Virus-Like Particles (VLP) GII.4 2002-2010	C01810M	MAb	Mouse
Norovirus Virus-Like Particles (VLP) Major Capsid Protein of both GI and GII	C01814M	MAb	Mouse
<b>OKADAIC ACID</b>			
Okadaic Acid	B01441R	PAb	Rabbit
<b>PSEUDOMONAS AERUGINOSA</b>			
<i>P. aeruginosa</i>	B47578G	PAb	Guinea Pig
<b>ROTAVIRUS</b>			
Rotavirus	C01729M	MAb	Mouse
Rotavirus	C01730M	MAb	Mouse
Rotavirus	C65194M	MAb	Mouse
Rotavirus	C65196M	MAb	Mouse
Rotavirus	C65197M	MAb	Mouse
Rotavirus VP6	R01728	Ag	<i>E. coli</i>
Rotavirus Vp7	C01715M	MAb	Mouse
Rotavirus broad reactivity	C65521M	MAb	Mouse
Rotavirus Group A Specific Antigen, VP6	C01295M	MAb	Mouse
Rotavirus Group A Specific Antigen, VP6	C66130M	MAb	Mouse
Rotavirus Group Specific Antigen	C86310M	MAb	Mouse
Rotavirus NCDV (Nebraska Calf Diarrhea Virus)(all antigens)	B65110G	PAb	Goat
Rotavirus NCDV (Nebraska Calf Diarrhea Virus)(all antigens)	B65211G	PAb	Goat
Rotavirus NCDV (Nebraska Calf Diarrhea Virus)(all antigens)	B65212G	PAb	Goat
Rotavirus NCDV (Nebraska Calf Diarrhea Virus)(all antigens)	B65213G	PAb	Goat
Rotavirus (all serotypes)	B01235S	PAb	Sheep
Rotavirus SA-11	7844	Ag	Native
<b>SALMONELLA</b>			
Salmonella species	B65701R	PAb	Rabbit
Salmonella species	B65703R	PAb	Rabbit
Salmonella species	B65704R	PAb	Rabbit
Salmonella species	B65707R	PAb	Rabbit
Salmonella species (A,B & D Groups)	C86109M	MAb	Mouse
Salmonella species (A,B,C,D & E Groups)	C65635M	MAb	Mouse
Salmonella species (A,B,C,D,E,F & G Groups)	C01358M	MAb	Mouse
Salmonella species (A,B,C,D,E,F & G Groups)	C01359M	MAb	Mouse
Salmonella species (A,B,C,D,E,F & G Groups)	C01360M	MAb	Mouse
Salmonella species (A,B,C,D,E,F & G Groups)	C01361M	MAb	Mouse
Salmonella species (A,B,C,D,E,F & G Groups)	C65957M	MAb	Mouse
Salmonella species (A,B,C,D,E,F & G Groups)	C65958M	MAb	Mouse
<i>S. enteritidis</i>	A01702N	Ag	Culture
<i>S. typhi</i>	A01699N	Ag	Culture
<i>S. typhi</i>	A01716N	Ag	Native

# Food & Water Safety Testing

## Full product list continued

Specificity	Catalog #	Type	Host
<i>S. typhi</i> (LPS)	C01362M	MAb	Mouse
<i>S. typhi</i> (LPS)	C86309M	MAb	Mouse
<i>S. typhi</i> (LPS)	C01919M	MAb	Mouse
<i>S. typhi</i> flagellin	R01746	Ag	<i>E. coli</i>
<i>S. typhi</i> Outer Membrane Protein (OMP)	R01670	Ag	<i>E. coli</i>
<i>S. paratyphi</i> A	A01700N	Ag	Culture
<i>S. paratyphi</i> B	A01701N	Ag	Culture
<i>S. paratyphi</i>	C01921M	MAb	Mouse
Salmonella LPS Core	C01918M	MAb	Mouse
<b>SHIGELLA</b>			
<i>S. boydii</i>	A01704N	Ag	Culture
<i>S. dysenteriae</i>	A01705N	Ag	Culture
<i>S. flexneri</i>	A01721N	Ag	Native
<i>S. sonnei</i>	A01706N	Ag	Culture
Shigella species	B65901R	PAb	Rabbit
<b>STAPHYLOCOCCUS AUREUS</b>			
<i>S. aureus</i>	B65881R	PAb	Rabbit
<i>S. aureus</i>	C55570B	MAb	Mouse
<i>S. aureus</i>	C55570M	MAb	Mouse
<i>S. aureus</i>	C55704M	MAb	Mouse
<i>S. aureus</i> Enterotoxin A (SEA)	C86104M	MAb	Mouse
<i>S. aureus</i> Enterotoxin A (SEA)	C86107M	MAb	Mouse
<i>S. aureus</i> Enterotoxin A (SEA)	C86205M	MAb	Mouse
<i>S. aureus</i> Enterotoxin A (SEA)	C86411M	MAb	Mouse
<i>S. aureus</i> Enterotoxin B (SEB)	B65851R	PAb	Rabbit
<i>S. aureus</i> Enterotoxin B (SEB)	C86220M	MAb	Mouse
<i>S. aureus</i> Enterotoxin B (SEB)	C86400M	MAb	Mouse
<i>S. aureus</i> Enterotoxin B (SEB)	MAV100-233	MAb	Mouse
<i>S. aureus</i> Enterotoxin B (SEB)	MAV100-265	MAb	Mouse
<i>S. aureus</i> Enterotoxin B (SEB)	R5V100-754	PAb	Rabbit
<i>S. aureus</i> Enterotoxin C (SEC)	R5V152-754	PAb	Rabbit
<i>S. aureus</i> Enterotoxin C (SEC)	MAV152-165	MAb	Mouse
<i>S. aureus</i> Enterotoxin D (SED)	C01793M	MAb	Mouse
<i>S. aureus</i> Enterotoxin D (SED)	C01794M	MAb	Mouse
<i>S. aureus</i> Enterotoxin D (SED)	C01795M	MAb	Mouse
<i>S. aureus</i> Enterotoxin D (SED)	C01796M	MAb	Mouse
<i>S. aureus</i> Enterotoxin E (SEE)	C01797M	MAb	Mouse
<i>S. aureus</i> Enterotoxin E (SEE)	C01798M	MAb	Mouse
<i>S. aureus</i> Enterotoxin E (SEE)	C01799M	MAb	Mouse
<i>S. aureus</i> Enterotoxin E (SEE)	C01800M	MAb	Mouse
<i>S. aureus</i> Enterotoxin E (SEE)	R5V150-754	PAb	Rabbit
<i>S. aureus</i> Enterotoxin G (SEG)	C01273M	MAb	Mouse
<i>S. aureus</i> Enterotoxin G (SEG)	C01274M	MAb	Mouse
<i>S. aureus</i> Enterotoxin H (SEH)	R5V149-754	PAb	Rabbit
<i>S. aureus</i> Enterotoxin I (SEI)	C01272M	MAb	Mouse
<b>YERSINIA ENTEROCOLITICA</b>			
<i>Y. enterocolitica</i> O:9	A01707N	Ag	Native
<i>Y. enterocolitica</i> O:3	A01708N	Ag	Native

# Toxins & Biological Warfare

Biological warfare is the intentional use of microorganisms and toxins (generally of microbial, plant or animal origin) to produce disease and death in humans, livestock or crops. The attraction of biologic agents in war and/or terroristic attacks is attributed to four main features: (1) their ease of access; (2) low production costs; (3) non-detection by routine security systems; and (4) easy transportation from one place to another.

Due to the invisible nature and virtual weightlessness of biological agents, standard routine detection and verification procedures are ineffective. Many toxins, microorganisms and viruses could potentially be used for terroristic purposes with generally a small number of casualties. There are a few biological agents suitable for warfare purposes with mass casualty potential. Those commonly identified are anthrax, botulism, brucellosis, smallpox, *Yersinia pestis* (Plague), *Francisella tularensis* (Tularemia), and various Viral Hemorrhagic Fevers (VHFs). Specifically, anthrax, VHFs, and smallpox are among the most researched pathogens studied in the biodefense industry (95% of all diseases) due to the scale of destruction that they can cause. Developments in biotechnology are increasing the possibilities of modifying relatively harmless biological agents into more sinister equivalents and bringing large-scale production capabilities within the reach of remote regions.

Defense research has centered around the development of a bioarmoury of antibiotics, antisera, toxoids and vaccines to neutralize and eliminate diseases. Current bioweapons defense research is now focusing on developing biosensors (using fiber optic or electrochemical devices) that contain specific antibodies to detect pathogens such as respiratory infectious agents that can be dispersed through sprays and air cooling systems. Advantages of biosensors include increased sensitivity, portability and rapid detection compared to existing technologies. Several immunosensors have already been developed to detect pathogens such as anthrax, smallpox and other microorganisms responsible for food and water contamination.

Antibody Pairs			
	CAPTURE	DETECTION	
<i>B. anthracis</i> Protective Antigen	C86501M	C86601M	
<i>B. anthracis</i> Spore Antigen	C86910M	C86702M	
Cholera Toxin - beta subunit	C01593M C01593M	C01592M C01594M	
<i>C. botulinum</i> Type A Toxoid	C86211M	C86468M	
<i>C. botulinum</i> Type B Toxoid	C01722M	C86018M	
<i>C. difficile</i> GDH	C01957M	C01957M	
<i>C. difficile</i> Toxin A	C01678M C65715M C65555M C65555M	C01677M C01677M C01677M C01678M	
<i>C. difficile</i> Toxin B	C65423M	C65426M	
Diphtheria Toxin	C86036M	C86213M	
Ebola Virus NP	C01964M	C01965M	
Ricin (RCA60)	C86921M	C86922M	
<i>Y. pestis</i> V Antigen	C86381M	C86480M	



# Toxins & Biological Warfare

## Full product list

Specificity	Catalog #	Type	Host
<b>BACILLUS</b>			
<i>B. anthracis</i> (Anthrax) Lethal Factor	C86542M	MAb	Mouse
<i>B. anthracis</i> (Anthrax) Lethal Factor	C86710M	MAb	Mouse
<i>B. anthracis</i> (Anthrax) Protective Antigen	C86501M	MAb	Mouse
<i>B. anthracis</i> (Anthrax) Protective Antigen	C86601M	MAb	Mouse
<i>B. anthracis</i> (Anthrax) Spore Antigen	C86702M	MAb	Mouse
<i>B. anthracis</i> (Anthrax) Spore Antigen	C86910M	MAb	Mouse
Bacillus spores	B65413R	PAb	Rabbit
<b>CHOLERA TOXIN B</b>			
Cholera Toxin B subunit	B65927R	PAb	Rabbit
Cholera Toxin B subunit	C01238M	MAb	Mouse
Cholera Toxin B subunit	C01240M	MAb	Mouse
Cholera Toxin B subunit	C01241M	MAb	Mouse
Cholera Toxin B subunit	C01242M	MAb	Mouse
Cholera Toxin B subunit	C01592M	MAb	Mouse
Cholera Toxin B subunit	C01593M	MAb	Mouse
Cholera Toxin B subunit	C01594M	MAb	Mouse
Cholera Toxin B subunit	C86204M	MAb	Mouse
<b>CLOSTRIDIUM BOTULINUM</b>			
<i>C. botulinum</i> Toxin A (a.a. 1280-1292)	R01372	Ag	Synthetic
<i>C. botulinum</i> Toxin A (a.a. 1280-1292)	C01372M	MAb	Mouse
<i>C. botulinum</i> Toxin A (a.a. 1280-1292)	C01373M	MAb	Mouse
<i>C. botulinum</i> Toxin B (a.a. 1278-1291)	C01374M	MAb	Mouse
<i>C. botulinum</i> Type A Hemagglutinin 33	B76303R	PAb	Rabbit
<i>C. botulinum</i> Type A Neurotoxin	B76800R	PAb	Rabbit
<i>C. botulinum</i> Type A Neurotoxin Complex	B76750R	PAb	Rabbit
<i>C. botulinum</i> Type A Neurotoxin Heavy Chain	B01429R	PAb	Rabbit
<i>C. botulinum</i> Type A Neurotoxin Light Chain	B76900R	PAb	Rabbit
<i>C. botulinum</i> Type A Neurotoxin Heavy Chain (a.a. 1177-1195)	C86029M	MAb	Mouse
<i>C. botulinum</i> Type A Neurotoxin Heavy Chain (a.a. 869-887)	C86033M	MAb	Mouse
<i>C. botulinum</i> Type A Toxoid	C86211M	MAb	Mouse
<i>C. botulinum</i> Type A Toxoid	C86468M	MAb	Mouse
<i>C. botulinum</i> Type B Toxoid	C01722M	MAb	Mouse
<i>C. botulinum</i> Type B Toxoid	C86018M	MAb	Mouse
<i>C. botulinum</i> Type B Neurotoxin Complex	B76200R	PAb	Rabbit
<i>C. botulinum</i> Type E Neurotoxin Complex	B76600R	PAb	Rabbit
<b>CLOSTRIDIUM DIFFICILE</b>			
<i>C. difficile</i> GDH	C01957M	MAb	Mouse
<i>C. difficile</i> GDH	R01738	Ag	<i>E. coli</i>
<i>C. difficile</i> Toxin A	C01677M	MAb	Mouse
<i>C. difficile</i> Toxin A	C01678M	MAb	Mouse
<i>C. difficile</i> Toxin A	C65555M	MAb	Mouse
<i>C. difficile</i> Toxin A	C65715M	MAb	Mouse
<i>C. difficile</i> Toxin A	C70472M	MAb	Mouse
<i>C. difficile</i> Toxin A	C70517M	MAb	Mouse
<i>C. difficile</i> Toxin A	R01739	Ag	<i>E. coli</i>
<i>C. difficile</i> Toxin B	C65423M	MAb	Mouse
<i>C. difficile</i> Toxin B	C65424M	MAb	Mouse
<i>C. difficile</i> Toxin B	C65426M	MAb	Mouse
<i>C. difficile</i> Toxin B	C65427M	MAb	Mouse

Specificity	Catalog #	Type	Host
<i>C. difficile</i> Toxin B	C65429M	MAb	Mouse
<i>C. difficile</i> Toxin B	C70885M	MAb	Mouse
<i>C. difficile</i> Toxin B	C70888M	MAb	Mouse
<i>C. difficile</i> Toxin B	R01740	Ag	<i>E. coli</i>
<b>CLOSTRIDIUM SPECIES</b>			
Clostridium species	B65817R	PAb	Rabbit
<b>CLOSTRIDIUM TETANI</b>			
<i>C. tetani</i> , Tetanus toxin (tetanospasmin, TeNT)	C01393M	MAb	Mouse
<i>C. tetani</i> , Tetanus toxin (tetanospasmin, TeNT)	C01394M	MAb	Mouse
<i>C. tetani</i> , Tetanus toxin (tetanospasmin, TeNT)	C01395M	MAb	Mouse
<i>C. tetani</i> , Tetanus toxoid	B65161G	PAb	Goat
<b>DIPHTHERIA TOXIN</b>			
Diphtheria Toxin	C86036M	MAb	Mouse
Diphtheria Toxin	C86213M	MAb	Mouse
Diphtheria Toxin A Subunit	C86124M	MAb	Mouse
Diphtheria Toxin A Subunit (free & bound)	C65781M	MAb	Mouse
Diphtheria Toxin/Toxoid	C65780M	MAb	Mouse
Diphtheria Toxin/Toxoid	B65701B	PAb	Goat
Diphtheria Toxin/Toxoid	B65701F	PAb	Goat
Diphtheria Toxin/Toxoid	B65701G	PAb	Goat
<b>EBOLA</b>			
Ebola Virus NP	C01964M	MAb	Mouse
Ebola Virus NP	C01965M	MAb	Mouse
Ebola Virus NP	C01966M	MAb	Mouse
Ebola Virus NP	C01967M	MAb	Mouse
Ebola Virus VP40	C01968M	MAb	Mouse
Ebola Virus VP40	C01969M	MAb	Mouse
Ebola Virus VP40	C01970M	MAb	Mouse
Ebola Virus VP40	C01971M	MAb	Mouse
Ebola Virus VP40	C01972M	MAb	Mouse
Ebola Virus VP40	C01973M	MAb	Mouse
Ebola Sudan (NP)	R01577	Ag	<i>E. coli</i>
Ebola Virus	C01762M	Ag	Mouse
Ebola Virus	C86037M	Ag	Mouse
Ebola Virus	C86180M	Ag	Mouse
Ebola Zaire (NP)	R01578	Ag	<i>E. coli</i>
<b>FRANCISELLA TULARENSIS</b>			
<i>F. tularensis</i> (LPS)	C86306M	MAb	Mouse
<i>F. tularensis</i> (LPS) - O Antigen	C86316M	MAb	Mouse
<b>GRAM NEGATIVE ENDOTOXIN</b>			
Gram Negative Endotoxin	C55308M	MAb	Mouse
<b>LIPOPOLYSACCHARIDE (LPS)</b>			
LPS (gram negative active bacteria)	B65692G	PAb	Goat
<b>MICROCYSTIN</b>			
Microcystin-LR	C01515M	MAb	Mouse
Microcystin-LR	C01516M	MAb	Mouse
<b>OKADAIC ACID</b>			
Okadaic Acid	B01441R	PAb	Rabbit



# Toxins & Biological Warfare

## Full product list continued

Specificity	Catalog #	Type	Host
<b>POLIOVIRUS</b>			
Poliovirus 1	C30510M	MAb	Mouse
Poliovirus 3	C30027M	MAb	Mouse
<b>RICIN</b>			
Ricin	R5V133-754	PAb	Rabbit
Ricin	MAV133-236	MAb	Mouse
Ricin (A-chain of RCA6)	C86750M	MAb	Mouse
Ricin (A-chain of RCA6)	C86921M	MAb	Mouse
Ricin (A-chain of RCA6)	C86922M	MAb	Mouse
Ricin (B-chain of RCA6)	C86921P	MAb	Mouse
<b>STREPTOCOCCAL PYROGENIC</b>			
Streptococcal Pyrogenic Exotoxin A (SPEA)	R5V155-754	PAb	Rabbit
<b>THEOPHYLLINE</b>			
Theophylline	G49873M	MAb	Mouse
<b>VACCINIA VIRUS</b>			
Vaccinia Virus	C65725M	MAb	Mouse
Vaccinia Virus	C65925M	MAb	Mouse
Vaccinia Virus	C86346M	MAb	Mouse
Vaccinia Virus A27L Protein	C01676M	MAb	Mouse
Vaccinia Virus (Lister Strain)	B65101B	PAb	Rabbit
Vaccinia Virus (Lister Strain)	B65101F	PAb	Rabbit
Vaccinia Virus (Lister Strain)	B65101R	PAb	Rabbit
<b>VEROTOXIN/SHIGATOXIN</b>			
Verotoxin I (Shiga-Like) B Subunit (SLT-1b, STX-1b)	C01690M	MAb	Mouse
Verotoxin II (Shiga-Like) A Subunit (SLT-2a, STX-2a)	C65585M	MAb	Mouse
Shiga Toxin Type II-B (STX-2b) (Verotoxin)	C01786M	MAb	Mouse
Shiga-Like Toxin 1 & 2 (SLT-1 & SLT-2) B Subunit (Verotoxin)	C66510M	MAb	Mouse
<i>E. coli</i> Shiga Toxin 1 & 2 (Verotoxin)	MAV65-912	MAb	Mouse
<i>E. coli</i> Shiga-Like Toxin 1, A & B Subunits (Verotoxin)	MAV66-310	MAb	Mouse
<b>YERSINIA</b>			
<i>Y. enterocolitica</i> O:3	A01708N	Ag	Culture
<i>Y. enterocolitica</i> O:9	A01707N	Ag	Culture
<i>Y. pestis</i> F1 Antigen EB Strain	C86308B	MAb	Mouse
<i>Y. pestis</i> F1 Antigen EB Strain	C86308M	MAb	Mouse
<i>Y. pestis</i> V Antigen	C86381M	MAb	Mouse
<i>Y. pestis</i> V Antigen	C86480M	MAb	Mouse

# Veterinary & Animal Health

Veterinary health products including veterinary pharmaceuticals, biologicals and medicated feed additives (MFAs), have transformed the health and welfare of livestock and companion animals worldwide. In the animal companion sector, the range and complexity of animal health products continues to expand, encompassing anti-infectives, parasite controls, reproductive aids, metabolic drugs, antibiotics, vaccines, topical solutions, imaging diagnostics, as well as novel treatments for chronic conditions such as osteoarthritis, cardiovascular disease and cancer.

Viral, bacterial and parasitic infections are among the most prevalent challenges faced by companion animals, but with the increase in ageing dog and cat populations, chronic, age-related conditions such as cardiovascular disease and cancer are being diagnosed with higher frequency.

For the livestock market, diagnostic tests have become an essential tool for monitoring and confirming the health status of animals. In recent outbreaks of animal diseases such as bovine spongiform encephalopathy, foot and mouth disease, and the highly pathogenic avian influenza have revealed that protecting the health of animals throughout the world is essential to managing public health. The global spread of transboundary diseases and emerging pathogens represent a direct threat to livestock sectors and therefore to food security. Diagnostic tests play a key role not only in facilitating safe trade, but also in many other areas, such as the early detection of new diseases, and the control of exotic or enzootic animal diseases. Critical importance is the accuracy of any veterinary test, since a false negative can be catastrophic for both animals and public health.

## Antibody & Antigen Pairs

	CAPTURE	DETECTION	ANTIGEN
Heartworm	C01994R	C01991M	
	C01992M	C01992M	
	C01993M	C01992M	
Canine Distemper Virus Surface Envelope	C86504M	C86801M	
	C01998M	C01998M	
Coronavirus	C02000M	C02001M	
	C02010M	C02009M	
	C01975M	C01974M	R01766
Parvovirus, Canine	C86005M	C86004M	



# Veterinary & Animal Health

## Full product list

Specificity	Catalog #	Type	Host
<b>AFRICAN SWINE FEVER VIRUS (ASFV)</b>			
p30	C01881M	MAb	Mouse
p30	C01882M	MAb	Mouse
<b>BORELLIA</b>			
<i>B. afzelii</i>	R14210	Ag	Broth
<i>B. afzelii</i> Osp-C	R01576	Ag	<i>E. coli</i>
<i>B. afzelii</i> (a.a 197-274)	R01707	Ag	<i>E. coli</i>
<i>B. garinii</i> flagellin	R01521	Ag	<i>E. coli</i>
<b>BRUCELLA ABORTUS</b>			
<i>B. abortus</i> , Intact Cells	C86116M	MAb	Mouse
<i>B. abortus</i> , Intact Cells	C86131M	MAb	Mouse
<b>CANINE DISTEMPER VIRUS (CDV)</b>			
CDV Antigen	A01726C	Ag	Vero Cells
CDV Surface Env. Antigen	C86504M	MAb	Mouse
CDV Surface Env. Antigen	C86801M	MAb	Mouse
<b>CORONAVIRUS</b>			
Coronavirus, Canine	C02011G	PAb	Goat
Coronavirus, Canine	C01998M	MAb	Mouse
Coronavirus, Canine	C01999M	MAb	Mouse
Coronavirus, Canine nucleoprotein	C02000M	MAb	Cell Culture
Coronavirus, Canine nucleoprotein	C02001M	MAb	Cell Culture
Coronavirus, Canine nucleocapsid	C02009M	MAb	Cell Culture
Coronavirus, Canine nucleocapsid	C02010M	MAb	Cell Culture
Coronavirus, Canine	A01730N	Ag	A-72 Cells
<b>FELINE IMMUNODEFICIENCY VIRUS (FIV)</b>			
FIV Core Antigen	R65360	Ag	<i>E. coli</i>
<b>FELINE LEUKEMIA VIRUS (FELV)</b>			
FeLV gp70	C65712M	MAb	Mouse
FeLV p27	B65221G	PAb	Goat
<b>FOOT AND MOUTH DISEASE</b>			
Foot and Mouth Disease Virus, Nonstructural Protein (NS)	C01452M	MAb	Mouse
Foot and Mouth Disease Virus, Serotype 01	C01448M	MAb	Mouse
<b>HEARTWORM</b>			
Heartworm, Canine	C01991M	MAb	Mouse
Heartworm, Canine	C01992M	MAb	Mouse
Heartworm, Canine	C01993M	MAb	Mouse
Heartworm, Canine	C01994R	PAb	Rabbit
Heartworm, Canine	MKZ30-487	MAb	Mouse
<b>INFECTIOUS BRONCHITIS VIRUS (IBV)</b>			
IBV (NP)	C01530M	MAb	Mouse
<b>INFECTIOUS BURSAL DISEASE VIRUS (IBDV)</b>			
IBDV VP2	C01524M	MAb	Mouse
IBDV VP2	C01526M	MAb	Mouse
IBDV VP3	C01525M	MAb	Mouse
IBDV VP3	C01528M	MAb	Mouse
<b>MAREK DISEASE</b>			
Marek Disease Virus	C01264M	MAb	Mouse
Marek Disease Virus	C01267M	MAb	Mouse

Specificity	Catalog #	Type	Host
<b>NEWCASTLE DISEASE VIRUS (NDV)</b>			
NDV	C01352M	MAb	Mouse
NDV	C86015M	MAb	Mouse
NDV Ribonucleoprotein	C01629M	MAb	Mouse
<b>NIPAH VIRUS (NiV)</b>			
NiV G Protein	C01974M	MAb	Mouse
NiV G Protein	C01975M	MAb	Mouse
NiV G Protein	R01766	Ag	Insect Cells
<b>PARVOVIRUS, CANINE</b>			
Parvovirus, Canine	C86004M	MAb	Mouse
Parvovirus, Canine	C86005M	MAb	Mouse
<b>RABIES VIRUS</b>			
Rabies Virus	C01428M	MAb	Mouse
Rabies Virus	C01429M	MAb	Mouse
Rabies Virus	C01630M	MAb	Mouse
Rabies Virus	C01631M	MAb	Mouse
Rabies Virus	C01634M	MAb	Mouse
Rabies Virus	C65041M	MAb	Mouse
Rabies Virus	C86307M	MAb	Mouse
<b>TRICHOMONAS FOETUS</b>			
<i>T. foetus</i>	C01572M	MAb	Mouse
<i>T. foetus</i>	C01573M	MAb	Mouse





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