

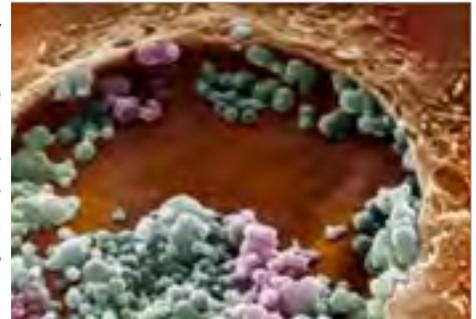
Sexually Transmitted Diseases

STDs (sexually transmitted diseases) refer to a variety of bacterial, viral and parasitic infections that are acquired through sexual activity. Common STDs include: chlamydia, gonorrhea, herpes, HIV, HPV, syphilis, gardnerella, mycoplasma and trichomoniasis. Many STDs affecting women show no early signs or symptoms. As a result, they go undetected and untreated until complications arise. The consequences of untreated STDs are often more serious in women, including: infertility, tubal pregnancy, chronic pain, cervical cancer and other complications. Early screening, diagnosis, counseling and treatment can stop the spread of STDs.

Enzyme immunoassay(EIA) is the diagnostic method most commonly used for the laboratory diagnosis of STD infections, but EIA has a lower detection limit of 10000 elementary bodies and thus lacks sensitivity required for a screening assay, especially in asymptomatic men. Culture has been the “gold standard” for the diagnosis of many STD and have high sensitivity and specificity however due to a slow-growing tendency it takes 2-3 days to get a result and also requires an invasively taken specimen. Nucleic acid based amplification assays using polymerase chain reaction (PCR) have a lower detection limit of one to 10 elementary bodies and specificities comparable with culture. They also offer all the advantages of non-culture tests in terms of specimen transport, batching, and rapid processing time of approximately 2-3 hours . The improved sensitivity of these assays allows the use of non-invasive specimens such as first catch urine (FCU) specimens. PCR tests using FCU specimens have been shown to have sensitivities ranging from 87% to 97% for men and 82% to 93% for women with specificities of 98–100%.

Chlamydia trachomatis

C. trachomatis can be differentiated into 18 serovars (serologically variant strains) based on monoclonal antibody–based typing assays. Serovars A, B, Ba, and C are associated with trachoma (a serious eye disease that can lead to blindness), serovars D-K are associated with genital tract infections, and L1-L3 are associated with lymphogranuloma venereum (LGV). *Chlamydia trachomatis* is an obligate intracellular pathogen (i.e. the bacterium lives within human cells) and can cause numerous disease states in both men and women. Both sexes can display urethritis, proctitis (rectal disease and bleeding), trachoma, and infertility.



Chlamydia trachomatis Kits

TB1-100FRT SA, RG, IQ, SC,MX, A,B,LC	Chlamydia trachomatis Real-TM Complete Real Time Test with DNA-Sorb-A extraction kit	R		100	5 x10 ² copies/ml
B1-100FRT SA, RG, IQ, SC,MX, A,B,LC	Chlamydia trachomatis Real-TM Real Time Amplification kit	R	€€	100	5 x10 ² copies/ml
B86-100FRT SA, RG, IQ, SC,MX, A	Chlamydia trachomatis A, B, C Typing Real-TM Real Time Amplification kit	R		100	1 x10 ³ copies/ml
B-113T-100F	Chlamydia trachomatis 260/966 IC	A		110	1 x10 ³ copies/ml

Ureaplasma species and Mycoplasma

Ureaplasma species and *Mycoplasma* are causes of nonchlamydial nongonococcal urethritis. *Mycoplasma* species do not cause vaginitis, but they may proliferate in patients with bacterial vaginosis and may contribute to the condition. *Ureaplasma species* can cause placental inflammation and may invade the amniotic sac early, causing persistent infection and adverse pregnancy outcomes, including premature birth.

Ureaplasma Kits

TB2-100FRT SA, RG, IQ, SC,MX, A,B,LC	Ureaplasma species Real-TM Complete Real Time Test with DNA-Sorb-A extraction kit	R	€€	100	5 x10 ² copies/ml
B2-100FRT SA, RG, IQ, SC,MX, A,B,LC	Ureaplasma species Real-TM Real Time Amplification kit	R	€€	100	5 x10 ² copies/ml

Ureaplasma Kits

B2-100FRT Q SA, RG, IQ, SC,MX, A,B	Ureaplasma species Quant Real-TM Real Time Amplification kit	R	CE	100	5 x10 ² copies/ml
TB19-100FRT SA, RG, IQ, SC,MX, A,B	Ureaplasma parvum/urealyticum Real-TM Complete Real Time Test with DNA-Sorb-A extraction kit	R	CE	100	1 x10 ³ copies/ml
B19-100FRT SA, RG, IQ, SC,MX, A,B	Ureaplasma parvum/urealyticum Real-TM Real Time Amplification kit	R	CE	100	1 x10 ³ copies/ml
B19-100FRT Q SA, RG, IQ, SC,MX, A,B	Ureaplasma parvum/urealyticum Quant Real-TM Real Time Amplification kit	R	CE	100	1 x10 ³ copies/ml
B-111T-100R	Ureaplasma urealyticum 652/238 IC	A		110	1 x10 ³ copies/ml
B-121T-100F	Ureaplasma species 408/238 IC NEW	A		110	
B-111P-100F	Ureaplasma parvum 666/238 IC NEW	A		110	

Mycoplasma Kits

TB3-100FRT SA, RG, IQ, SC,MX, A,B,LC	Mycoplasma hominis Real-TM Complete Real Time Test with DNA-Sorb-A extraction kit	R	CE	100	5 x10 ² copies/ml
B3-100FRT SA, RG, IQ, SC,MX, A,B,LC	Mycoplasma hominis Real-TM Real Time Amplification kit	R	CE	100	5 x10 ² copies/ml
TB4-100FRT SA, RG, IQ, SC,MX, A,B,LC	Mycoplasma genitalium Real-TM Complete Real Time Test with DNA-Sorb-A extraction kit	R	CE	100	5 x10 ² copies/ml
B4-100FRT SA, RG, IQ, SC,MX, A,B,LC	Mycoplasma genitalium Real-TM Real Time Amplification kit	R	CE	100	5 x10 ² copies/ml
B-109-100F	Mycoplasma hominis 419/220 IC	A		110	1 x10 ³ copies/ml
B-108-100F	Mycoplasma genitalium 525/822 IC	A		110	1 x10 ³ copies/ml

Neisseria gonorrhoeae

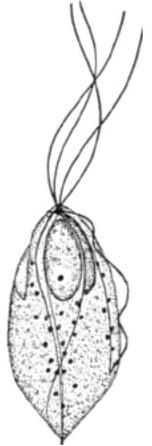
Gonorrhea, which is caused by *Neisseria gonorrhoeae*, is an important public health problem and is the most common reportable infectious disease. An estimated 700,000 new gonococcal infections occur annually in the United States. Gonorrhea is most frequently spread during sexual contact. However, it can also be transmitted from the mother's genital tract to the newborn during birth, causing ophthalmia neonatorum and systemic neonatal infection. The incubation period is usually 2-8 days.

Neisseria gonorrhoeae Kits

TB5-100FRT SA, RG, IQ, SC,MX, A,B,LC	Neisseria gonorrhoeae Real-TM Complete Real Time Test with DNA-Sorb-A extraction kit	R	CE	100	5 x10 ² copies/ml
B5-100FRT RG, IQ, SC,MX, A,B,LC	Neisseria gonorrhoeae Real-TM Real Time Amplification kit	R	CE	100	5 x10 ² copies/ml
B-105-100F	Neisseria gonorrhoeae 270/412 IC	A		110	1 x10 ³ copies/ml

Trichomonas vaginalis

Trichomonas vaginalis trophozoite is oval as well as flagellated. Five flagella arise near the cytostome; four of these immediately extend outside the cell together, while the fifth flagellum wraps backwards along the surface of the organism. Trichomoniasis is the most common, curable sexually transmitted disease in the world. It is also one of the three most common vaginal infections in women. Trichomoniasis is caused by a one-celled parasite, *Trichomonas vaginalis*. Trichomoniasis affects both women and men. The most common location of infection in women is the vagina, and in men it is the urethra. In women, the symptoms of trichomoniasis may include yellow-green vaginal discharge, fishy odor, pain during urination and sexual intercourse, and genital itching or irritation. Men usually do not show trichomoniasis symptoms, but some may experience discharge from the penis or burning during urination or ejaculation.



Trichomonas vaginalis

TB6-100FRT SA, RG, IQ, SC, MX, A, B, LC	Trichomonas vaginalis Real-TM Complete Real Time Test with DNA-Sorb-A extraction kit	R	€€	100	5 x10 ² copies/ml
B6-100FRT SA, RG, IQ, SC, MX, A, B, LC	Trichomonas vaginalis Real-TM Real Time Amplification kit	R	€€	100	5 x10 ² copies/ml
B-112-100F	Trichomonas vaginalis 640/390 IC	A		110	1 x10 ³ copies/ml

Sexually Transmitted Disease: Multiplex PCR Kits

TB43-100FRT SA, RG, IQ, SC, MX, A, B	Chlamydia trachomatis/Ureaplasma/M.hominis Real-TM Complete Real Time Test with DNA-Sorb-A extraction kit	R		100	5 x10 ² copies/ml
B43-100FRT SA, RG, IQ, MX, SC, A, B	Chlamydia trachomatis/Ureaplasma/M.hominis Real-TM Real Time Amplification kit	R	€€	100	5 x10 ² copies/ml
TB46-100FRT SA, RG, IQ, MX, SC, A, B	Chl. trachomatis/Ureaplasma/M.genitalium Real-TM Complete Real Time Test with DNA-Sorb-A extraction kit	R		100	5 x10 ² copies/ml
B46-100FRT SA, RG, IQ, MX, SC, A, B	Chl. trachomatis/Ureaplasma/M.genitalium Real-TM Real Time Amplification kit	R	€€	100	5 x10 ² copies/ml
TB60-100FRT RG, SA-5, B	C.trachomatis/Ureapl./M.hominis/M.genitalium Real-TM Complete Real Time Test with DNA-Sorb-A extraction kit	R		100	5 x10 ² copies/ml
B60-100FRT RG, SA-5, B	C.trachomatis/Ureapl./M.hominis/M.genitalium Real-TM Real Time Amplification kit	R	€€	100	5 x10 ² copies/ml
TB61-100FRT RG, SA-5, B	N.gonor./C.trachomatis/T.vaginalis/M.genitalium Real-TM Complete Real Time Test with DNA-Sorb-A extraction kit	R		100	5 x10 ² copies/ml
B61-100FRT RG, SA-5, B	N.gonor./C.trachomatis/T.vaginalis/M.genitalium Real-TM Real Time Amplification kit	R	€€	100	5 x10 ² copies/ml
TB65-100FRT SA, RG, IQ, SC, MX, A, B	T. vaginalis/N.gonorrhoeae Real-TM Complete Real Time Test with DNA-Sorb-A extraction kit	R	€€	100	5 x10 ² copies/ml
B65-100FRT SA, RG, IQ, MX, SC, A, B	T. vaginalis/N.gonorrhoeae Real-TM Real Time Amplification kit	R	€€	100	5 x10 ² copies/ml
B75-100FRT Q SA, RG, IQ, MX, SC, A, B	Ur. parvum/Ur.urealyticum/M.hominis Quant Real-TM Real Time Amplification kit	R	€€	100	5 x10 ² copies/ml
B83-100FRT SA, RG, IQ, MX, SC, A, B	Tr. vaginalis/N.gonorrhoeae/Chl.trachomatis Real-TM Real Time Amplification kit	R	€€	100	5 x10 ² copies/m
TB67-100FRT SA, RG, IQ, MX, SC, A, B	Chl. trachomatis/N.gonorrhoeae/M.genitalium Real-TM Complete Real Time Test with DNA-Sorb-A extraction kit	R		100	5 x10 ² copies/m
B67-100FRT SA, RG, IQ, MX, SC, A, B	Chl. trachomatis/N.gonorrhoeae/M.genitalium Real-TM Real Time Amplification kit	R	€€	100	5 x10 ² copies/m
TB87-100FRT SA, RG, IQ, MX, SC, A, B	HSV I / HSV II / Treponema pallidum Complete Real Time Amplification kit with DNA-Sorb-B extraction kit	R	€€	100	5 x10 ² copies/m
B87-100FRT SA, RG, IQ, MX, SC, A, B	HSV I / HSV II / Treponema pallidum Real Time Amplification kit	R	€€	100	5 x10 ² copies/m

Candida albicans

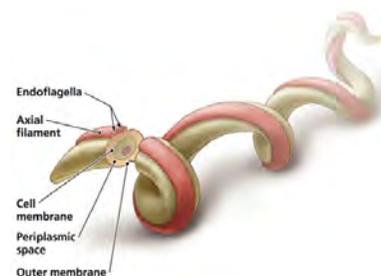
Candida albicans is a diploid fungus (a form of yeast) and a causal agent of opportunistic oral and genital infections in humans. *C. albicans* is commensal and is among the gut flora, the many organisms that live in the human mouth and gastrointestinal tract. Under normal circumstances, *C. albicans* lives in 80% of the human population with no harmful effects, although overgrowth results in candidiasis. Candidiasis is often observed in immunocompromised individuals such as HIV-positive patients but may also occur in the blood and in the genital tract. Candidiasis, also known as “thrush”, is a common condition, usually easily cured in people who are not immunocompromised. To infect host tissue, the usual unicellular yeast-like form of *C. albicans* reacts to environmental cues and switches into an invasive, multicellular filamentous forms.

Candida albicans Kits

TF1-100FRT SA, RG, IQ, SC, MX, A, B, LC	Candida albicans Real-TM Complete Real Time Test with DNA-Sorb-A extraction kit	R	€€	100	1 x10 ³ copies/ml
F1-100FRT SA, RG, IQ, SC, MX, A, B, LC	Candida albicans Real-TM Real Time Amplification kit	R	€€	100	1 x10 ³ copies/ml
TF3-100FRT SA, RG, IQ, MX, SC, A, B	Candida albicans/C.glabrata/C.krusei Real-TM Complete Real Time Test with DNA-Sorb-A extraction kit	R	€€	100	1 x10 ³ copies/ml
F3-100FRT SA, RG, IQ, MX, SC, A, B	Candida albicans/C.glabrata/C.krusei Real-TM Real Time Amplification kit	R	€€	100	1 x10 ³ copies/ml
TF5-100FRT SA, RG, B	Candidosis Real-TM Quant Complete Real Time Amplification kit for detection of <i>C.albicans</i> , <i>C.glabrata</i> , <i>C.krusei</i> , <i>C.parapsilosis</i> , <i>C.tropicans</i> with DNA-Sorb-A extraction kit	R	€€	100	1 x10 ³ copies/ml
F5-100FRT SA, RG, B	Candidosis Real-TM Quant Real Time Amplification kit for detection of <i>C.albicans</i> , <i>C.glabrata</i> , <i>C.krusei</i> , <i>C.parapsilosis</i> , <i>C.tropicans</i>	R	€€	100	1 x10 ³ copies/ml
B-193-100F	Candida albicans 535/220 IC	A		110	2,5 x10 ³ copies/ml

Treponema pallidum

Treponema pallidum is a species of spirochaete bacterium with subspecies that cause a disease such as syphilis. Syphilis is a sexually transmitted disease whose route of transmission is almost always through sexual contact, although there are examples of congenital syphilis via transmission from mother to child in utero or at birth. *T. pallidum* is transmitted via penetration of the spirochetes through mucosal membranes and abrasions on epithelial surfaces. Incubation time from exposure to development of primary lesions, which occur at the primary site of inoculation, averages 3 weeks but can range from 10-90 days. Syphilis can generally be treated with antibiotics, including penicillin. If left untreated, syphilis can damage the heart, aorta, brain, eyes, and bones. In some cases these effects can be fatal.



Treponema pallidum Kits

TB20-100FRT SA, RG, IQ, SC, MX, A, B, LC	Treponema pallidum Real-TM Complete Real Time Test with DNA-Sorb-B extraction kit	R	€€	100	5 x10 ² copies/ml
B20-100FRT SA, RG, IQ, SC, MX, A, B, LC	Treponema pallidum Real-TM Real Time Amplification kit	R	€€	100	5 x10 ² copies/ml